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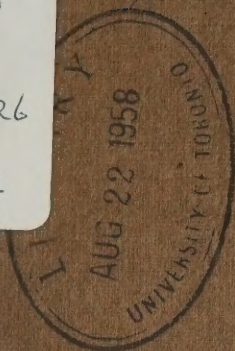


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Report 103
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HYDRO-ELECTRIC INQUIRY COMMISSION

GENERAL REPORT

VOLUME I

W. D. GREGORY, CHAIRMAN
M. J. HANEY
LLOYD HARRIS
J. ALLAN ROSS
R. A. ROSS

COMMISSIONERS

JOSEPH H. W. BOWER
SECRETARY

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Hydro-Electric Inquiry Commission
General Report Volume I 1922-24

March 5, 1924

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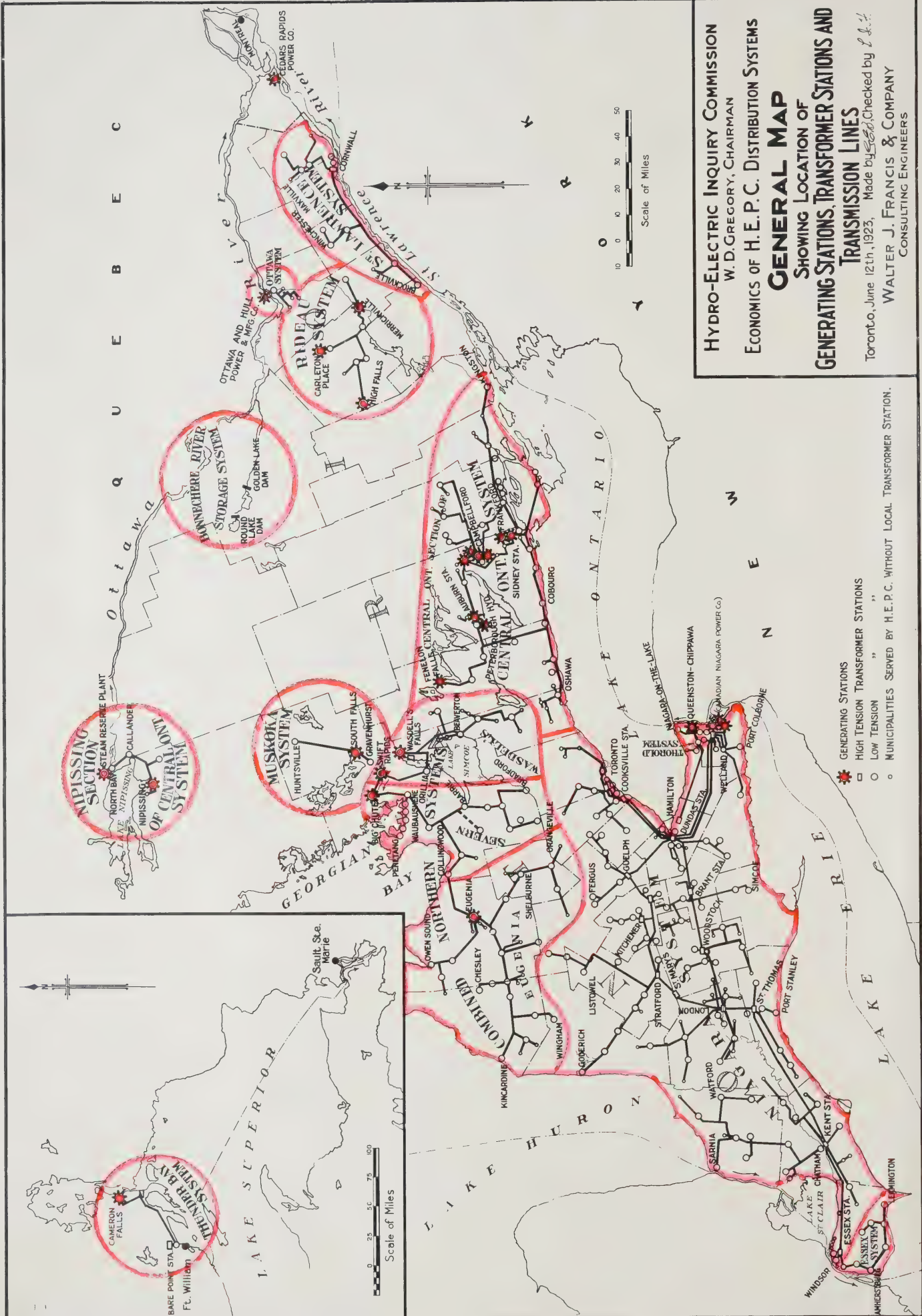
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HYDRO-ELECTRIC INQUIRY COMMISSION
W. D. GREGORY, CHAIRMAN
ECONOMICS OF H. E. P. C. DISTRIBUTION SYSTEMS
GENERAL MAP
SHOWING LOCATION OF
GENERATING STATIONS, TRANSMISSION LINES
AND
TRANSFORMER STATIONS
 Toronto, June 12th, 1923, Made by *W.D.G.* Checked by *L.H.H.*
WALTER J. FRANCIS & COMPANY
 CONSULTING ENGINEERS

General Map
Showing Location of
Generating Stations, Transformer Stations and
Transmission Lines
of the
Hydro-Electric Power Commission of Ontario



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HYDRO-ELECTRIC INQUIRY COMMISSION

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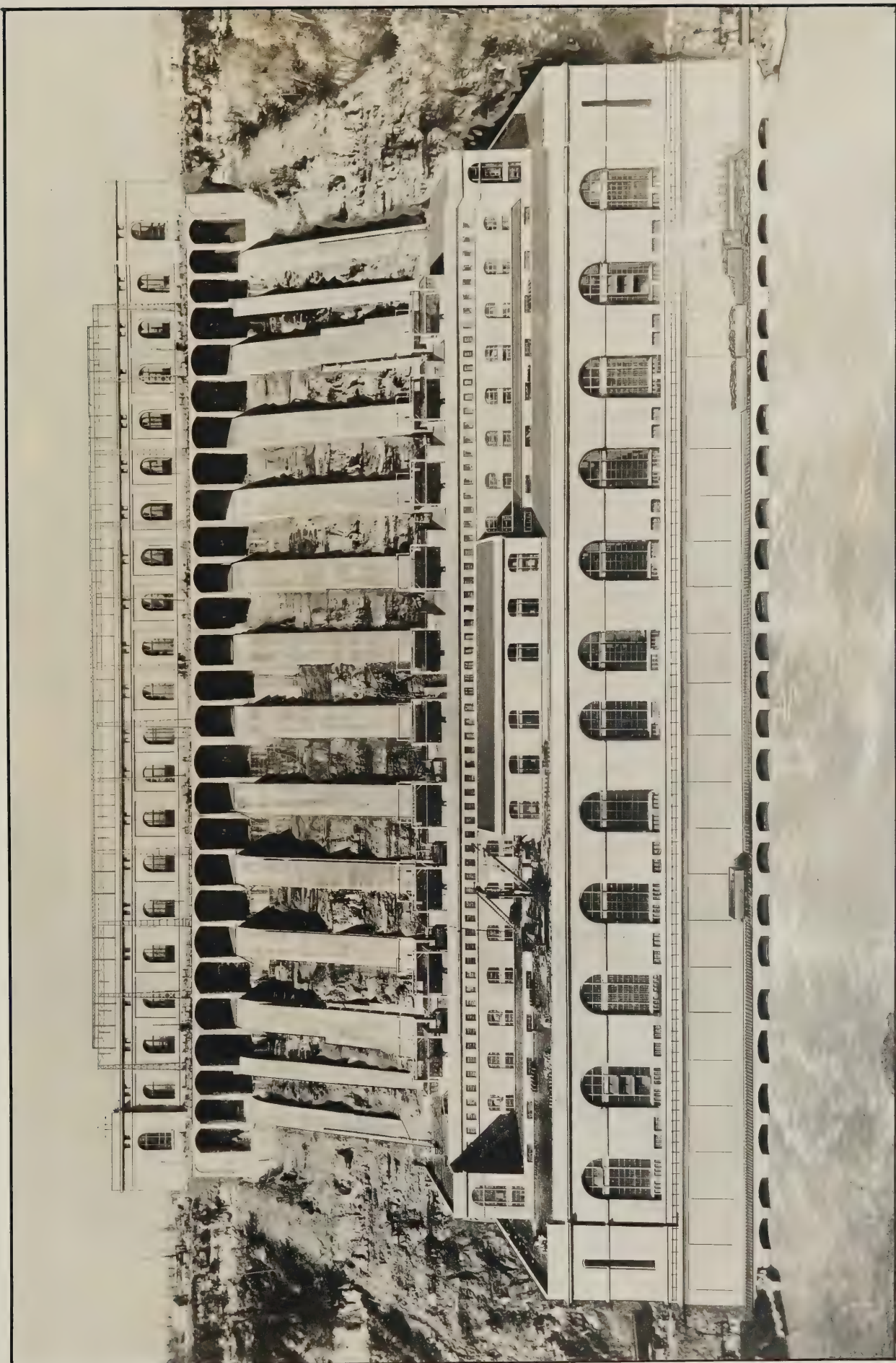
Power Plant

of the

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Queenston-Chippawa Power Development

As it will appear if completed for ten units



To His Honour Henry Cookshutt.

Lieutenant-Governor of the Province of Ontario.

May it Please Your Honour:

By an order of Your Honour in Council dated the thirteenth day of April, 1922, and made in pursuance of "An Act respecting Inquiries concerning Public Matters", Revised Statutes of Ontario, 1914, Chapter 18, we were appointed as Commissioners to inquire into and report upon:

1. All estimates submitted from time to time to the Hydro-Electric Power Commission of Ontario for the Queenston-Chippawa Power Development, and also all estimates for the said work submitted by the said Commission to the Government of Ontario.
2. The reasons for increases from time to time in the estimates for the Queenston-Chippawa Power Development.
3. The total cost when completed of the Queenston-Chippawa Power Development.
 - (a) With five units installed.
 - (b) With units installed to the full capacity of the Canal.
4. The continuous output capacity of the Queenston-Chippawa Power Development, under the conditions mentioned in Clause 3.
5. The methods of construction, supervision and management which have been employed in the Queenston-Chippawa Power Development, and whether they can justifiably be continued for the economical completion of the work.
6. (a) The quantity of water now available for use by means of the Queenston-Chippawa Canal;
(b) The power that can be developed thereby in continuous output at the Queenston Power Station.

to his Honor Harry Macpherson.

Minister-Governor of the Province of Ontario.

May it please Your Honor:

By an order of Your Honor in Council dated the thirteenth day

of April, 1935, and made in pursuance of "An Act respecting inquiries concerning
Public Works", Revised Statutes of Ontario, 1914, Chapter 16, we were appointed

as Commissioners to inquire into and report upon:

1. All estimates submitted from time to time to the Hydro-Electric
Board of Ontario for the Niagara-Whitney Power
Development, and also all estimates for the said work submitted
by the said Commission to the Government of Ontario.

2. The reasons for increases from time to time in the estimates
for the Niagara-Whitney Power Development.

3. The total cost when completed of the Niagara-Whitney Power
Development.

(a) With five units installed.
(b) With units installed to the full
capacity of the Canal.

4. The estimated output capacity of the Niagara-Whitney Power
Development, under the conditions mentioned in Clause 3.

5. The methods of construction, supervision and management which
have been employed in the Niagara-Whitney Power Development,
and whether they can profitably be continued for the economical
completion of the work.

6. (a) The quantity of water now available for use by means of the
Niagara-Whitney Canal;
(b) The power that can be developed thereby in continuous output
at the Niagara Power Station.

7. In what manner and to what extent will the price of Niagara Power be affected, if at all, by the cost of the Queenston-Chippawa Development.
8. Any other power developments undertaken by the Hydro-Electric Power Commission, and generally all matters of expenditure and administration by the said Commission.

To make such suggestions and recommendations in connection with or arising out of the subjects thus indicated, as may be desirable and to report the evidence and facts brought out by the investigation, along with such findings.

By a further Order-in-Council, dated the twelfth day of September, 1923, the immediately preceding paragraph of Your Honour's former Order was amended to read:

"To report the evidence and facts brought out by the investigation."

COPY

7. In such manner and to such extent will the price of electricity be determined, it is all, by the cost of the generation.

8. Any other power developments undertaken by the Hydro-Electric Power Commission, and generally all matters of expenditure and administration by the said Commission.

To make such regulations and recommendations in connection with the operation of the said Commission, as may be desirable and to report the evidence and make recommendations to the Government, along with such other matters.

9. A further Charter-in-Charge, dated the twelfth day of

September, 1911, the immediately preceding paragraph of the Charter-in-Charge, was amended to read, "The Commission shall have the right to acquire, lease, or otherwise obtain, for the purpose of the Commission, any land, buildings, or other property, and to use the same for the purpose of the Commission."

"To report the evidence and make recommendations to the Government."

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PART I - INTRODUCTION

It was in the year 1906 that the Legislature acceded to the demand of a number of municipalities in western Ontario and passed an Act which, among other things, provided for the appointment of the Hydro-Electric Power Commission of Ontario (hereinafter called "the Commission"). The Province then entered upon a course which was bound to have a definite effect upon its economic structure. During the years that followed, the business administered by the Commission gradually increased. From a purchaser and distributor of electric power the Commission has now become an owner and builder of power plants of such size as to enable it to generate nearly all the power which it sells; it also operates on behalf of the Province the Central Ontario System; it has taken over control or operation of radial and street railways, and has promoted a scheme for building and operating a great system of radial railways which would have involved, had it been proceeded with, an expenditure of many millions. The plants owned and operated by the Commission now generate more electric power than any other group of publicly-owned electric power plants in the world. The total capital involved in the undertakings referred to amounted at October 31st, 1922, to about \$170,000,000, of which approximately \$160,000,000 has been advanced or guaranteed by the Province.

In and before 1922 there had been much criticism in the Legislature and elsewhere of the expenditures made for the construction of the

THE PROBLEM

It was in the year 1933 that the Committee started to the
study of a number of possibilities in various fields and based on the
basis of these studies, reported the report to the President.
Power Commission of Electric Industries called "The Committee". The
Committee then advised that a survey which was made to have a definite
effect upon the economic situation. During the years 1933-1934, the
Committee conducted by the Committee, especially in the
past and history of electric power the Committee has now become
an expert and holder of power plants of great size as to capacity is to increase
nearly all the power which it holds. It also operates on behalf of the
Federal Electric System; it has been very active in connection
of radial and street railways, and has promoted a scheme for building and
operating a great system of radial railways which would have involved, had
it been attempted with, an expenditure of many billions. The plans were
not approved by the Committee and electric power was
very much of electric power plants in the world. The total
capital involved in the enterprises referred to was about \$200,000,000.
In 1934, it was about \$170,000,000, of which approximately \$125,000,000 was from
funds of the Government of the Province.

In and before 1934 there had been much activity in the
study and planning of the expenditures made for the construction of the

various developments of the Commission, especially of the Queenston-Chippawa undertaking, and of the methods of operation and of the general conduct of the Commission's business. Your late Government appears to have been desirous of ascertaining not only whether what had been done had been properly done, but also to ascertain whether its confidence could be extended to the Commission in regard to future developments, the construction of which was already under consideration and for which the Province might at any time be requested to provide the funds. As the Government had to go on the market to secure present and future loans for the Commission, it was also important that the financial interests should have independent and authoritative information in respect of the organization for which the money was required. It thereupon decided to have an independent investigation made of all facts pertaining to the matters set forth in the commission issued to us.

Upon receiving notification of our appointment as Commissioners in this behalf, we proceeded, as expeditiously and thoroughly as the nature and extent of the inquiry warranted, to investigate and study the subject matters referred to us.

Briefly the investigation may be grouped under four headings: Engineering, Financial, Legal and General. The branches of our organization which were responsible to us therefor may be designated as the Engineering Department, the Financial Department, the Legal Department and the General Department. These several branches reported directly to us from time to time;

4

[illegible]

On receipt of notification of our appointment as Commissioners in this regard, we proceeded, as specifically and thoroughly as the nature and extent of the inquiry warranted, to investigate and study the subject.

[illegible]

and after hearing evidence, studying the reports of the Departments mentioned and making our decisions, we prepared our reports to Your Honour. The reports, submitted to us by the General Department, served to a large extent, as drafts of our reports.

On beginning our inquiry we were impressed with the magnitude of the work before us, involving as it did an investigation of a capital investment of \$170,000,000, and an annual expenditure of many millions of dollars and the investigation of all activities of the Commission in its relations with the Government and with the municipalities. This involved a review of the ability of the Commission in respect of business, engineering and construction, an investigation of the accounts, of their distribution, of their apportionment to different systems, together with the cost of power and the rates charged in various districts.

Our investigation was primarily directed to the most extensive undertaking of the Commission,-- the Queenston-Chippawa Power Development, and into subject matters in relation thereto to which Your Honour's commission directed us particularly to inquire. At the time of our appointment as Commissioners, however, the power plant at Queenston had been in operation but a short time and the construction costs of the Development had not been brought up to date and distributed by the Commission. It was not until about six months later that the accounts and records of the Commission were in such shape that engineering and economic studies could be definitely undertaken. In the meantime, however, progress was being made in the investigation of other undertakings of the Commission.

Your Honour having deemed the matter into which we were directed to inquire to be "connected with or affecting the good government of Ontario, or the conduct of any part of the public business thereof", we undertook the duties entrusted to us with the desire and determination of examining, studying and fully considering all matters of administration and expenditure by the Commission. It was necessary to adopt such a course in order that we might be able to submit to Your Honour a report showing the important consequences resulting from conformity with, or transgression of, the letter and spirit of statutory or other enactments under which this great public undertaking, initiated by an Act of the Legislature in 1906, has been administered.

In addition to these purely business and economic features there existed a vast body of criticism, suggestions for betterment, and so forth, coming from municipal bodies, from interested and sometimes hostile groups and from individuals more or less informed. In private business little weight would have been given to many of these criticisms, but in a public enterprise of such magnitude every suggestion and complaint had to be dealt with, and it was felt that due consideration should be given to such criticisms as were offered in order that the public might be informed as to the value of them.

Generally speaking, the degree of confidence that is placed in any organization which is administering a large undertaking is measured to a considerable extent by the efficiency that the organization has, in the past, displayed in the conduct of the affairs entrusted to it. With this principle in mind, therefore, we have endeavoured by means of a complete examination of

There is no doubt that the system of public education in the United States is one of the most important and most successful in the world. It is a system that has been built up over a long period of time, and it has been able to adapt itself to the changing needs of the country. The system is based on the principle of universal education, and it has been able to provide a high quality of education for all children. The system is also based on the principle of local control, and it has been able to adapt itself to the needs of the local community. The system is a source of pride for the American people, and it is a source of strength for the American nation.

In addition to the public education system, there are many other educational institutions in the United States. These include private schools, colleges, and universities. Each of these institutions has its own unique character and its own contribution to make to the education of the American people. The public education system is the foundation of the educational system, and it is the responsibility of the government to ensure that it is able to provide a high quality of education for all children. The private educational institutions are an important part of the educational system, and they are able to provide a high quality of education for those who are able to pay for it. The government should support the private educational institutions, and it should ensure that they are able to provide a high quality of education for all children.

It is the responsibility of the government to ensure that the educational system is able to provide a high quality of education for all children. This requires a commitment of resources, and it requires a commitment to the principle of universal education. The government should ensure that the educational system is able to adapt itself to the changing needs of the country, and it should ensure that it is able to provide a high quality of education for all children. The government should also ensure that the educational system is able to provide a high quality of education for those who are able to pay for it. The government should support the private educational institutions, and it should ensure that they are able to provide a high quality of education for all children.

all of the business affairs of the Commission to lay before Your Honour a complete audit of the legal, financial and engineering features, so that the Legislature, as representing the Province in general, and the municipal corporations and others who have entered into contracts with the Commission, may know to what extent they have been justified in relying upon the methods and actions of the Commission in the administration of this great undertaking.

We trust, that, having investigated all of the activities of the Commission, which necessitated, amongst other things, the careful inspection and condensing of thousand of documents, and having examined its relations with the Province on one hand and the municipalities on the other, our reports will prove to be a useful source of information, not only to the Government but to the municipalities concerned and to individuals who are interested. In these reports will be found condensed the history of every large transaction of the Commission whether with the Government, the municipalities, or individuals, especially those transactions which have called for investigation or criticism. They summarize in a form in which it has never been presented to the public, the business of the Commission to date.

It is well known that effective and magnificent results have been attained by the Commission. It was for us to determine if what had been done had been done in a manner and at a cost which could be justified; if mistakes had been made and useless and extravagant expenditure had been incurred and if there had been breaches of trust and departure from the laws. If certain acts

all of the business affairs of the Commission for the purpose of the
complete review of the facts, financial and accounting records, and the
testimony, or representation of the parties to the case, and the
investigation and report of the fact-finding committee with the
help of the fact-finding committee in writing the report.
The object of the Commission is the establishment of a fact-finding

to trust, that, having investigated all of the activities of the
Commission, which represented, among other things, the actual Commission
investigation of financial records, and having received the testimony of the

investigation in the past and the Commission in the future, the report will
have to be a complete review of the facts, financial and accounting records
the Commission represented and the individuals who were involved. In some
reports will be found evidence of the fact-finding committee of the
Commission whether with the Government, the individuals, or individuals.
The Commission will be required to make the investigation as complete as possible.
They are required in a time to time to give it the most complete review of the facts.

The business of the Commission is to

It is well known that financial and accounting records are
obtained by the Commission. It was found to determine if the fact-finding
committee was in a position to make a complete review of the facts, financial
and accounting records and the individuals who were involved and if
there had been members of the fact-finding committee from the fact-finding
committee.

of the Commission have been open to question, then the bringing of these acts to public attention may tend to prevent their repetition, may lead to an increase in the benefits accruing to the public and add to the credit due to the Commission for its general administration.

The nature and extent of the investigation undertaken by us was not of the character of an investigation that might be made of any ordinary business enterprise conducted for private profit. The measure of success in a private enterprise may be gauged with a fair degree of accuracy by the profits or losses shown on annual balance sheets. An individual or corporation, engaged in business conducted primarily for private gain, is not hedged in and restricted in his business activities to the same extent as is a trustee administering the affairs of others. The business of the Commission must be carried on in accordance with statutory or other competent authority under which it is created, and operates not for the profit of any individual, corporation, or class of the community, but for the general benefit of all. The basic principle of the Statutes governing the Commission is the supply of electrical power to municipal corporations at a price representing the actual cost thereof.

Generally speaking, these elements entering into the cost of power are the same for the Commission as for a private distributor of power, but, through the elimination of profit in the case of the operations of the Commission, the power consumers benefit by the amount of any dividends which might be paid to stockholders or of interest paid to bondholders in a private

of the Commission have been open to question, then the bringing of these facts to public attention may tend to prevent their repetition, and lead to an increase in the benefit derived to the public and not to the credit due to the Commission for its general administration.

The nature and extent of the investigation undertaken by me and not of the character of an investigation that might be made of any ordinary business enterprise conducted for private profit. The nature of business in a private enterprise may be known with a fair degree of accuracy by the public or known about by general business sources. An individual or corporation engaged in business conducted primarily for private gain, is not hedged in and restricted in his business activities to the same extent as is a trustee administering the affairs of a trust. The business of the Commission may be carried on in accordance with liberty or other important public policy which is to be served, and operates not for the profit of any individual, corporation, or class of the community, but for the general benefit of all. The basic principle of the Statute governing the Commission is the supply of electrical power to municipal corporations at a price representing the actual cost thereof.

Generally speaking, when amounts entering into the cost of power are the same for the Commission as for a private distributor of power, but, through the elimination of profit in the case of the operations of the Commission, the power consumers benefit by the amount of any dividends which might be paid to stockholders or to interest paid to bondholders in a private

enterprise over and above the amount of interest now paid to the Government or others by the Commission. Thus, while there is no standard by which the efficiency of the Commission can be directly judged, we have endeavoured to determine whether or not the administration by the Commission of the business committed to its charge has been efficient, competent and economical, to ascertain whether or not consumers of electrical power and others dealing with the Commission are paying more than should be paid, and if injustice has been done to the Province or to any individual or corporation within the Province. Our inquiry, therefore, has been necessarily of a comprehensive and far-reaching character.

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In the course of our investigation into the business and affairs of the Commission, we have had occasion and opportunity for tracing each and every step in the development of this great public enterprise and its steadily growing beneficial influence on the industrial and material progress of the Province. We have viewed many of the works of the Commission, have, in different parts of the Province, heard evidence from supporters and opponents of the enterprise, have considered many complaints against and criticisms of administrative and other acts of the Commission, have examined all available records and documents that were pertinent to our inquiry and have thus been enabled to arrive at definite conclusions of fact. Having regard to the complexities of the organization, its peculiar economic relations to the public and its magnitude, our analysis of the financial, engineering and legal aspects of each of the activities of the Commission covers a wide field.

...and have the amount of interest now paid to the Government
of about 100,000,000. But, while there is no standard by which the
efficiency of the Commission can be directly judged, we have endeavored to
determine whether or not the administration by the Commission of the business
concerned in its affairs has been efficient, economical, and
expedient. In our opinion, the Commission has been efficient in its handling
of the business and in its management of its affairs, and it is believed that
the Commission has been able to carry out its duties in a satisfactory
manner. Our policy, therefore, has been one of a comprehensive
and far-reaching character.

In the course of our investigation into the business and affairs
of the Commission, we have had occasion to examine the books and records
of the Commission and to interview the various officers and employees
of the Commission. We have viewed many of the books of the Commission, and in different
parts of the business, have obtained from the various officers and employees of the
Commission, have conducted many inquiries and interviews of
various kinds and other work of the Commission, have examined all records
and documents that were available to our inquiry and have thus been
enabled to arrive at definite conclusions of fact. Having regard to the
complexities of the organization, the peculiar nature of the business, the
large and the various, our analysis of the financial, engineering and
legal aspects of each of the activities of the Commission covers a wide field.

In addition to investigating the finances of the Commission, we, with the consent of the Government, investigated in the Department of the Provincial Treasurer the accounts between the Government and the Commission to ascertain whether or not the Government was receiving from the Commission the cost of the moneys advanced to it. A full report thereon entitled "Cost of Money Advanced to the Hydro-Electric Power Commission by the Province of Ontario", was, in October last, presented by us to Your Honour.

Our reports have been submitted to Your Honour with the confident hope that full details of every feature of the Commission's administration have been exhibited and the Government and Legislature placed in a position to judge in what respects, if any, the methods and procedure of the Commission require revision, amendment or fuller definite legislative approval in order that the well-founded policy of public ownership and operation of the water power resources of the Province may merit and receive universal approval and support.

We now respectfully submit our General Report, which is necessarily in a large measure a résumé of salient facts and features relating to particular undertakings and activities upon which we have previously reported in detail. The business methods and principles generally employed and applied in the administration of all or several of the undertakings of the Commission, and divergencies therefrom in the case of particular works, together with other subject matters of public importance which have not been covered by our interim reports, are dealt with herein.

[illegible][illegible][illegible]

PART II - SCOPE OF INQUIRYSection IGENERAL

The nature and extent of our inquiry has been indicated in the preceding introductory statements. The undertakings of the Commission in operation at the present time, which have been investigated and reported on by us, are as follows:

- A. Power undertakings administered under the provisions of The Power Commission Act, being those supplying electrical power or energy to:

Thunder Bay System	Rideau System
Eugenia System	Bonnechere River Storage System
Muskoka System	Ottawa System
Severn System	Niagara System
Waddell's System	Essex System
St. Lawrence System	Thorold System

- B. Power undertakings constructed and operated under the provisions of The Ontario Niagara Development Acts:

The Queenston-Chippawa Power Development.

- C. Power generating plants owned by incorporated companies, the control of which is vested in the Commission:

The Ontario Power Company of Niagara Falls
+ The Toronto Power Company, Limited, and its subsidiaries

- D. Undertaking owned directly by the Province and operated by the Commission:

Central Ontario System.

TABLE II - STATE OF DEVELOPMENT

Section I
GENERAL

The State has a number of waterfalls and has been limited in the
development of hydroelectric power. The development of the Province in
operation at the present time, which have been investigated and reported on

by us, are as follows:

1. Power generating installations under the provisions of the
Power Commission Act, which have been investigated and reported on
by us, are as follows:

1. Lake Huron	2. Lake Huron
3. Lake Huron	4. Lake Huron
5. Lake Huron	6. Lake Huron
7. Lake Huron	8. Lake Huron
9. Lake Huron	10. Lake Huron
11. Lake Huron	12. Lake Huron
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25. Lake Huron	26. Lake Huron
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29. Lake Huron	30. Lake Huron
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2. Power generating installations and systems under the provisions
of the Ontario Electric Development Act:

The Ontario Electric Development Act:

3. Power generating plants owned by the Government, the
control of which is vested in the Government:

The Ontario Power Company of Niagara Falls
The Ontario Power Company, Limited, and its subsidiaries

4. Generation owned directly by the Province and operated by the
Government:

Central Ontario Power

E. Hydro-Electric railways operated by the Commission under the provisions of The Hydro-Electric Railway Act, 1914, and special legislation:

Sandwich, Windsor and Amherstburg Railway and
Windsor and Tecumseh Electric Railway
Guelph Radial Railway
Hydro-Electric Radial Railways

+ - The Toronto Power Company, Limited, and its subsidiaries, while included in the above list of undertakings, were not investigated by us. It was acquired after our appointment and where it has been necessary to refer to it in our reports, we have used only general figures supplied to us by Mr. G. T. Clarkson, the Auditor.

Section 2

ADVISORY REPORTS

Detailed studies were made of the several undertakings of the Commission by our Engineering, Accounting, Legal and General Departments as before indicated.

Engineering Department

Under the direction and personal supervision of Mr. Walter J. Francis, S.E., M.E.I.C., our Consulting Engineer, exhaustive investigations and studies were made of the Queenston-Chippawa Power Development and other power systems of the Commission and reports dealing with the engineering economics thereof were submitted to and considered by us, and have been,

or will be, transmitted to Your Honour. A list of these forms Appendix "A" to this report.

Accounting Department

The books and accounts of the Commission being annually audited and reported upon by Mr. G. T. Clarkson, Auditor of the accounts of the Commission, a member of the firm of Clarkson, Gordon & Dilworth, and an Accountant of the highest standing and repute, it was deemed unnecessary to duplicate his work. It was considered essential, however, to employ accountants to make special examinations of the books and records of the Commission, to furnish complete reports of the financial transactions of each undertaking, to express opinion from an accountancy standpoint upon any transactions or methods that might appear open to criticism or unsound, and to ascertain from the books of account and records and to supply to our Engineering Department, data, statistics and information required by it.

Messrs. Price, Waterhouse & Co. were appointed by us as our Accountants. A list of the reports and memoranda submitted to us by them, which have been or will be transmitted to Your Honour, forms Appendix "B" to this report.

Legal Department

We did not organize a definite Department with a recognized head to deal with legal questions arising during the course of our inquiry, nor employ Counsel to appear at our public hearings, except those in connection with estimates and appropriations for the Queenston-Chippawa Power Development, for which Honourable N. W. Rowell, K.C., was engaged as Counsel and examined

the witnesses testifying with a view to establishing all material facts relating to that subject matter, favourable or otherwise to the Commission.

Mr. F. W. Wegenast was employed during the early days of the inquiry as our Secretary, and part of the duties assigned to him was the making of preliminary investigations of a legal nature. When another Secretary was appointed, Mr. Wegenast's duties became of a strictly legal nature and these he continued to perform until early in the year 1923. Other members of the profession were from time to time engaged for the purpose of compiling data of a legal character, and giving assistance in the preparation of reports. Since February, 1923, Mr. J. A. McAndrew, K.C., has acted as our General Legal Adviser.

General Department

All secretarial work in connection with our inquiries and reports, the charge of all our official records, and the co-ordination of the work of the three aforementioned expert departments so that there might be no overlapping or unnecessary expense, was assigned to the General Department, which was under the direction of our Secretary, Mr. J. H. W. Bower, Civil Engineer. It was the duty of the General Department to study the reports of the Departments just mentioned and to prepare for us, from these reports and from other information in our hands, material for our reports. This material, as compiled, set forth in a concise manner the physical, economic, financial and legal aspects of the different subjects.

and at present working with a view to establishing all material facts relating to this subject matter, heretofore in progress in the Commission.

and its total gross will reflect assigned and unassigned. P. 20, 201

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For further details, please refer to the full text of the report, which is available at: <http://www.who.int/publications>

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4. *Adaptation* - The ability of an organism to change its phenotype in response to its environment.

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THE ABOVE IS ALL OUR OFFICIAL RECORD, AND THE DISSEMINATION OF THE SAME IS PROHIBITED

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The help of the Central Government is sought in regard to the following:

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Section 3OUR REPORTS

The reports heretofore submitted to Your Honour have been of two classes: namely, those dealing with the several distinct undertakings of the Commission and those bearing upon certain general matters investigated by us. The former of these have been designated as Reports upon Systems, using the term "Systems" as equivalent to works or undertakings serving systems or groups of municipalities, and in these are contained, with full details, a history of the undertaking, its engineering features, its financial aspects, and comments upon the inter-relationship of the Commission, the Province, Municipal Corporations and others. A list of these System Reports and of those dealing with certain general matters, all of which have been transmitted to Your Honour, is here given:

- Thunder Bay System
- Central Ontario System
- Sandwich, Windsor & Amherstburg Railway
and Windsor and Tecumseh Electric Railway
- Guelph Radial Railway
- Eugenia System
- St. Lawrence System
- Severn System
- Ottawa System
- The Ontario Power Company of Niagara Falls
- Examination of Auditor's Reports
- Hydro-Electric Radial Railways
- Waddell's System
- Cost of Money Advanced to the Hydro-Electric
Power Commission by the Province of Ontario
- Rideau System
- Huskoka System
- Niagara System

History and General Relations
 The Queenston-Chippawa Power Development
 Volumes I, II, III and IV
 Thorold and Essex Systems and Bonnechere River
 Storage System

Review of Legislation - by J. A. McAndrew, K.C.,
 and R. Leighton Foster

Section 4

PLAN OF GENERAL REPORT

This, our General Report, is intended to be a summing up and discussion of the broad general outstanding questions which have been dealt with in our former reports, to which we shall refer as occasion arises.

The detailed information contained in our System Reports is not repeated, nor are the comments in our reports on general matters given in extenso.

The subjects dealt with herein are indicated in the Index at the beginning of this report.

PART III - HISTORY AND LEGAL STATUS OF THE COMMISSIONSection 5HISTORICAL

Our report entitled "History and General Relations" is a comprehensive record of the incidents connected with the promotion, creation and rapid growth of the Commission. Therein is traced the course of Legislative enactments increasing its powers, duties and responsibilities and in some respects altering the basic principles upon which its creation was founded. The salient points dealt with in our former report are here but briefly summarized.

Prior to 1902 the water power resources of the Province were to a certain extent in the control and possession of private individuals or corporations, but many of the water power privileges of the Province were undeveloped or but partly developed and remained the property of the Crown, as represented by the Province. In 1900, a movement was inaugurated for the utilization of these natural resources for the benefit of municipalities and meetings were held in Toronto, Waterloo and elsewhere. These are more fully dealt with in our report on the history of the movement. The leading spirits were Mr. E. W. B. Snider, member of the Legislature for North Waterloo, and Mr. D. B. Detweiler. A meeting of municipal representatives interested was held on February 17th, 1903, one of those present being Mr. Adam Beck, then Mayor of the City of London, who later became the most active and forceful advocate of the policy of public control of power supply. A delegation waited upon Honourable Mr. Ross

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CONCLUSIONS

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100% of the population is covered by the service.

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The authors thank the reviewers for their helpful comments and suggestions.

...the power resources of the Province were to a

...to individuals serving to maintain the integrity of the system

Figure 1. The effect of the water pump vibration on the vibration level of the machine.

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

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Some other countries for the benefit of municipalities and counties are

With its various, technical and scientific, there are many other things that are not

Report on the history of the movement, however, and is grateful and to thank the Jewish Agency for the support it has given to the movement.

Below, names of the legislators who have passed, or will pass, legislation

1 meeting of students representatives followed on 10th April 1994.

1987, was at least somewhat below the time level of the CCR as

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and members of his Government and urged the appointment of a Government Commission to undertake the duty of supplying electrical power or energy to municipalities, or in the alternative, that municipalities be authorized to co-operate for this purpose. The Government declined to accept responsibility to the extent asked, but introduced a Bill, which was passed at the Session of 1903, entitled "An Act to provide for the Construction of Municipal Power Works and the Transmission, Distribution and Supply of Electrical and other Power and Energy", referred to in this report as the "Act of 1903". This Act enabled municipalities to acquire and construct works for the direct supply of electrical power or energy without intervention or assistance by the Government and subjects, as to acquisition of plants, to those provisions of the Municipal Act, commonly known as the "Conmee Clauses" (1903, C.19, S.566, 61.(a) to (a9)).

Under the authority of this Act, Commissioners were appointed by a group of western Ontario municipalities "to determine the feasibility and desirability of securing the establishment and operation of municipal power, heat and light works". In 1905, pending investigations by this Municipal Commission of which Mr. E. W. B. Snider was Chairman, and Mr. Adam Beck a member, a change of Government took place, Honourable Mr. Whitney replacing Honourable Mr. Ross as Premier of the Province. Mr. Adam Beck became a member, without portfolio, of the new Government, which shortly after assuming power appointed Commissioners, with Honourable Mr. Beck as Chairman, to inquire into and recommend such action as they might deem necessary or advisable for the purpose of providing municipalities with electrical power at cost.

The reports of both the Municipal and Government Commissioners were presented in 1906, within a few days of one another. The estimates of cost in both reports were approximately the same.

The recommendations of the Commissions were generally adopted and the Legislature on the 7th May, 1906, passed an Act entitled "An Act to provide for the Transmission of Electrical Power to Municipalities", referred to in this report as the "Act of 1906". Under the provisions of this Act, the "Hydro-Electric Power Commission of Ontario" was appointed and consisted of Honourable Adam Beck, Chairman, Honourable John S. Hendrie and Mr. Cecil B. Smith, C.E. The Act of 1906 was revised in 1907, the short title of the revised Act being "The Power Commission Act".

Since the passage of the Act of 1906, the powers and duties of the Commission have been greatly extended, not only by amendments thereto, but by other Statutes. Many of the amendments to The Power Commission Act were occasioned by the necessity for the approval of actions of the Commission for which there had been no legislative authority when they were taken.

Following its appointment, the Commission actively proceeded to carry into effect the provisions of the Act. Contracts were made with several municipalities, now part of the Niagara System, for the purchase by them and sale to them by the Commission, of Niagara power, an agreement for the supplying of which had been made between the Commission and The Ontario Power Company of Niagara Falls. Distribution of this power began on the 11th November, 1910,

The reports of both the Municipal and Government Commissioners were presented in 1906, within a few days of one another. The estimates of cost in both reports were approximately the same.

The recommendations of the Municipal and Government Commissioners were similar. Both recommended that the Government should take over the operation of the water supply system. The Government accepted the recommendation of the Municipal Commission, and in 1907, the Government took over the operation of the water supply system. The Government also accepted the recommendation of the Municipal Commission, and in 1907, the Government took over the operation of the water supply system. The Government also accepted the recommendation of the Municipal Commission, and in 1907, the Government took over the operation of the water supply system.

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Following the appointment of the Commission, the Commission has been successful in carrying out the recommendations of the Municipal and Government Commissioners. The Commission has been successful in carrying out the recommendations of the Municipal and Government Commissioners, and in 1907, the Government took over the operation of the water supply system. The Government also accepted the recommendation of the Municipal Commission, and in 1907, the Government took over the operation of the water supply system.

over the first transmission lines constructed by the Commission. Since that date the volume of business transacted by the Commission has regularly and rapidly increased. Not only has there been a continuously increasing demand for power which has been supplied by new construction and extension of former construction in various sections of the Province, but the Commission has undertaken also the acquisition and operation of the power generating plants of The Ontario Power Company of Niagara Falls and The Toronto Power Company, and of electric railway companies. Many privately-owned power generating and distributing plants have been acquired by purchase or by expropriation, the Commission not being hampered by the provisions of the "Conmee Clauses", which the Act of 1906 declared not to be applicable to municipalities entering into contracts with the Commission. A list of these properties so acquired is given in our report, "History and General Relations"; the number is over ninety.

The acquisition by the Province in 1916 and operation by the Commission since that date on behalf of the Province of the power development and distributing system in Central Ontario, involving the operation of an electric railway in the City of Peterborough, a pulp mill at Campbellford, municipal gas plants and other utilities in the Central Ontario District, added greatly to the duties and responsibilities of the Commission. Great and important as are the works mentioned, they are in total surpassed by the work not yet completed in connection with the Queenston-Chippawa Development, authorized and carried on under the provisions of The Ontario Niagara

Development Act of 1917, a separate report upon which we have submitted to Your Honour.

The rapid expansion of the activities of the Commission is graphically shown by the corresponding increase in obligation assumed by the Province to meet the cost of works constructed or operated by the Commission and we insert as page 22 a diagram included in a former report to illustrate this increase.

Section 6

LEGAL STATUS

The powers and duties of the Commission have from time to time increased, as has been hereinbefore indicated. Their exercise has been regulated in certain cases by amendments to The Power Commission Act and in others by special Statutes. The constitution of the Commission with changing personnel has remained the same since the passage of the Act of 1906. It consists of three members appointed by the Lieutenant-Governor in Council. Every person appointed to the Commission holds office during pleasure, and the Lieutenant-Governor, upon death, resignation or removal from office of any member of the Commission may appoint some other person to fill his place. Two of the members may be and one must be a Member of the Executive Council. The Lieutenant-Governor in Council appoints one of the members to be Chairman of the Commission. The Commission is declared to be a body corporate and as such its corporate powers and duties must be exercised by at least a quorum of two members.

COPIED WITH THESE RECORDS BY
THE PUBLIC OR ATTORNEY OF
THE HYDRO-ELECTRIC POWER COMMISSION
AND THE CENTRAL POWER SYSTEM

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The rapid expansion of the activities of the Commission and its subsidiaries and its numerous direct and

and we have to pay for a diagram printed on a yellow paper in illustration
 of the book. The book is now in the hands of the printer and will be
 available soon by the corresponding number in 1914/15 season in the
 library.

THE POWER OF THE PEOPLE

However, it has been suggested that the results are not generalizable to other populations.

It serves as a guide to the various types of cases that may be brought before the court.

Department of Health and Human Services, Washington, DC 20492

10-10-68

Three members appointed by the President in Council, three members

Approved for Release by NSA on 08-25-2013 pursuant to E.O. 13526

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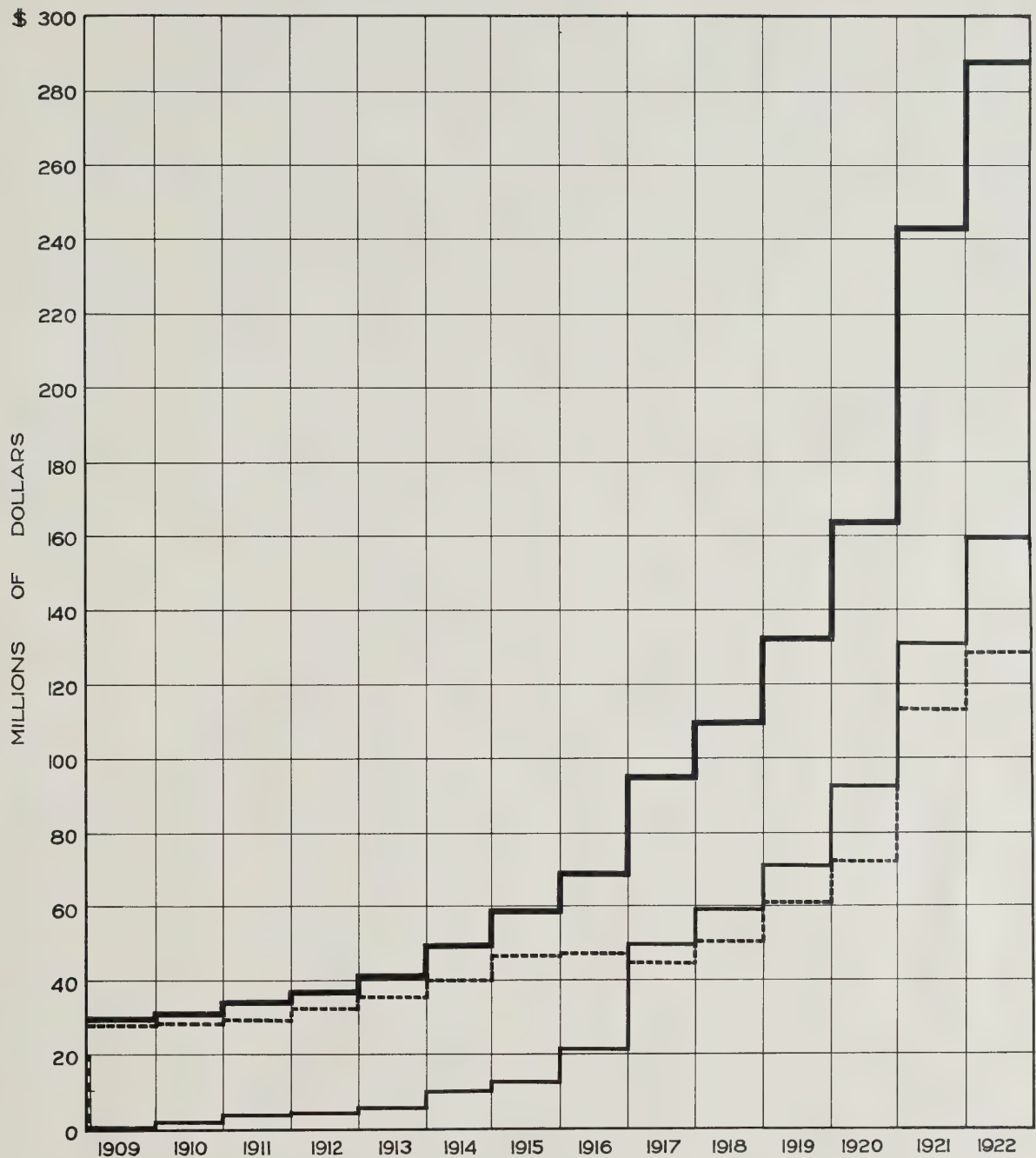
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The Commission will also be interested in the results of the study.

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TOTAL PROVINCIAL LIABILITIES —————
 TOTAL H.E.P.C. AND CENTRAL ONTARIO SYSTEM
 CASH ADVANCES AND OTHER LIABILITIES —————
 PROVINCIAL LIABILITIES OTHER THAN
 H.E.P.C. AND CENTRAL ONTARIO SYSTEM - - - - -

HYDRO-ELECTRIC INQUIRY COMMISSION

TOTAL PROVINCIAL LIABILITIES
 COMPARED WITH THOSE INCURRED BY
 THE PROVINCE ON ACCOUNT OF
 THE HYDRO-ELECTRIC POWER COMMISSION
 AND THE CENTRAL ONTARIO SYSTEM

September 11th., 1923

There is no provision in The Power Commission Act or other Statute authorizing the delegation of any of the powers of the Commission to its officers or others. As a body corporate many of its acts and deeds must be evidenced by a corporate seal. In the absence of any provision authorizing the Commission to pass by-laws or other regulations governing the conduct of its business, it would appear that the affixing of the corporate seal should be under the hands of at least a quorum of the members. Any corporate powers of the Commission should be exercised by all its members or at a meeting for which notice has been given to all and at which at least two members are present.

② Our attention has been drawn to the fact that the validity of transfers of land under The Land Titles Act executed by officers of the Commission has been questioned, there being no authority under the Statutes or otherwise for delegation of this power of the Commission to its officers. An amendment to the Act appears desirable to provide that any documents requiring the seal of the Commission may on its authority be executed by designated officers.

The Commission, subject to the approval of the Lieutenant-Governor in Council, may borrow money and issue bonds, debentures and other securities therefor. It also has power to issue securities in payment of the acquisition of certain properties. These securities have been signed, we understand, by the Chairman and the Secretary of the Commission, as have also other formal documents of the Commission. Many corporate acts of the Commission have not been formally approved at meetings of the Commission. The validity of the issue of the securities has not, we believe, been raised by purchasers or other holders of securities of the Commission. They probably rely upon the Provincial

guarantee thereof, which has generally been given with the securities. Created by and continued in existence at the pleasure of the Lieutenant-Governor in Council, under authority of the Legislature, to exercise and perform duties assigned to it from time to time by the Legislature; depending very largely upon Provincial advances and guarantees to meet capital expenditures, it is difficult to understand the contention that has been raised in certain quarters that the status of the Commission is one merely of trustee for municipal corporations, which have entered into contracts with it, and that its actions are to be regulated in accordance with their expressed wishes or at its own will with consideration alone of the interests of municipalities, and this free from all Government control or interference. The practical result of such contention, if carried into effect, would be a reversion to the principle of the Act of 1903 and abandonment of Government control, upon which The Power Commission Act was originally based. Statutory changes have to a certain extent loosened the control of the Government over the Commission, but such changes have not altered the constitutional status of the Commission, and its acts are those of an Agent of the Province.

Section 7

GENERAL RELATIONS

The relation the Commission bears to the Province, to municipal corporations with which it has entered into contracts and to others, has been dealt with comprehensively in our report entitled "History and General Relations" and to a certain extent in our system reports and in those entitled "Cost of

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Section 1

General Principles

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Money Advanced to the Hydro-Electric Power Commission by the Province of Ontario" and "Examination of Auditor's Reports for Period 1916-1921 inclusive". We have not dealt in detail, nor do we deem it advisable or necessary now to do so, with the several transactions between the Commission and private individuals and corporations, involving amongst others the acquisition of some ninety undertakings connected with the generation and distribution of power. The general features of the relationship of the Commission to the Province and to contracting municipal corporations are here indicated. For fuller information on these subjects we refer Your Honour to the reports just mentioned.

Relations with the Province

The intention of the promoters of the Act of 1906 and of the Legislature in passing that Act cannot be doubted in view of the course of events related in a preceding section of this report. The change of public policy which took place when the Act of 1906 replaced that of 1903 and the casting primarily upon the Province the duty and responsibility of financing projects for the supply of electrical power or energy to such municipalities as might desire the same, and the public utterances upon the debate upon the Bill in the House in 1906, clearly show that the creation of the Commission was intended to be a means of enabling the Province to utilize, to as full extent as possible, its water resources for the supply of electrical power to the public at cost and, at the same time, to assure to the Province as a whole the full benefit of ownership of great natural resources. Initiated by representatives of municipalities, composing but a portion of the Province, difficulties in the way of municipal ownership or control and of financing the cost of generating

plants and main transmission lines, and the feeling that the undertaking was for the general good of the Province doubtless led to the adoption of the policy of Provincial control through a Commission appointed by and representative of the Government of the Province. The Commission was intended, as stated in 1906 by Honourable Mr. Whitney, to be in effect a Department of the Government.

Under The Power Commission Act of 1906, the Province provided all moneys to be expended by the Commission and the Commission was required to account to the Province for these moneys and also to pay over to the Province all sums received by it in the course of its business.

Amendments to the Act and the passage of other Statutes extending the powers of the Commission and relieving it of certain duties in respect of the disposition of moneys received by it from other than Provincial sources, have in a large measure altered the original relationship of the Commission to the Province, but not to the extent of completely removing it from Provincial control or placing it otherwise than in the position it originally occupied of a representative of the Province, created by the Legislature, and charged as a body corporate with the duty of exercising only such powers as the Legislature might confer on it. Frequent disregard of the limitation of these powers and of duties imposed upon it, appears to have led to the assumption by the Commission that it is a law unto itself, is not responsible to anyone for any of its actions and may conduct its business howsoever it pleases under the assurance that if any breach of trust be committed by it in regard to funds entrusted to it, or if any unauthorized course of action be adopted by it, or if an

and the feeling that the government was not doing enough to help the people.

and the fact that the Government has not been able to secure the necessary funds to carry out its program.

Control of financial control through a Commission appointed by and representative

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changes to be expected by the Government and the Ministry of the Interior and the Ministry of the Interior.

TO THE DIRECTOR, FBI, WASHINGTON, D.C.

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to the fact that the average of other States' expenditure

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of the situation at some point in its history.

It is requested that you advise the Bureau of any change in the information furnished above.

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Journal of Management Education 26(8) 970-980

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1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

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Auditor of its accounts or other person raises protest or objection, the Legislature will ratify, approve and ex post facto authorize its unauthorized acts.

The Statutes do not provide the machinery for direct control by the Government whereby unauthorized courses of action and unauthorized expenditures by the Commission may be prevented. Such a control was possible under the provisions for the appointment of a Comptroller enacted by the Legislature in 1916, but these provisions were, in effect, abrogated by subsequent amendments. Under the law as it now is, expenditures have been made at times without appropriations therefor and without the knowledge of the Legislature or of the Government. Appropriations have also been requested by the Commission for certain purposes and the Government has been assured that the expenditures would not exceed the amount required, although at the very time the appropriations were asked for the Commission knew or should have known that the expenditures had been or would be far in excess of the appropriations. Yet while the Government has no direct control over the acts of the Commission, it has a most effective indirect control for, as the Commission is appointed by, and removable by, the Government, it can, at any time, in the case of misconduct on the part of the Commission or any of its members, remove them from office. If knowing of wrongdoing it fails to exercise this remedy it becomes to a large extent responsible for the Commission's acts.

While the status of the Commission as a creation of the Province, with its members holding office at the pleasure of the Government and entrusted with the expenditure of large sums of public money and thus an Agent of the Province, has not been altered by Legislative amendments, sufficient changes

See also P21 P30 ✓

have been made in the course of dealing between the Commission and the Government to give some ground for the attitude assumed in certain quarters that the Commission is a trustee solely for Hydro-municipalities and that the Province must make such monetary advances as are requested by the Commission and occupy the position of a mere creditor of the Commission for advances made and obligations assumed.

The general position which appears to have been taken by the Commission, and many of its supporters, is that the Treasury of the Province should be placed at the disposal of the Commission, and that the Government should without question provide for the Commission such funds as it may from time to time require, to be administered as to it may seem fit, for those municipalities of the Province, which have entered or may hereafter enter into contracts with the Commission for a supply of power. If this view were accepted by the Government and the Legislature, the credit of the Province would be placed largely in the Commission's hands. The attitude of the Commission does not tend towards allaying the suspicions or removing the objections of those portions of the Province which so far have been unable or unwilling to share in any benefits of public ownership and operation of a great public utility, for the financing of which they, as part of the Province, are responsible, nor is it such as to permit of harmonious relations between the Government and the Commission.

Other aspects of the relationship of the Commission to the Province, particularly with reference to the ownership of works and properties vested in the Commission are discussed later in this report.

Relations with Hydro Municipalities

This subject is fully dealt with in our report entitled "History and General Relations" and is specifically referred to in our various system reports.

As has been indicated in these reports, the belief has been engendered in the popular mind that the ownership of all works and properties vested in the Commission and constructed or acquired by means of Provincial advances or guarantees are held by the Commission solely as trustee for the respective municipal corporations which have entered into contracts with it, and for whose benefit the works and properties have been constructed or acquired. If this be the intention of the Legislature as expressed in its Statutory enactments, it would seem likely that some clearly expressed provision would be found in those enactments which would effectively relieve the Province from all further financial obligations and at the same time definitely fix responsibility for the repayment of Provincial advances and the assumption of Provincial obligations by municipalities in a definite manner and at definite times.

At a meeting of the Ontario Municipal Electric Association held in Hamilton on April 4th, 1923, the following resolution was adopted:

"That this meeting of representatives of the Municipalities of the Niagara System engaged in the development, transmission and distribution of electric energy as a Municipal undertaking desire to place ourselves on record as believing the time has come to take such steps as will relieve the Provincial Government from all financial responsibility and place the administration and control of the Hydro-Electric System in the hands of the Municipalities who are owners and are financially responsible for the undertaking."

The resolution is a direct reversion to the policy of the Act of 1903, and a rejection of the principles enunciated by the promoters of the Act of 1906 and expressed in that Act. It was made clear to us, however, by representatives of municipalities throughout the Province, who appeared before us, that the opinion expressed in the resolution above quoted is not the general opinion held by Hydro Municipalities throughout Ontario.

The statement that the municipalities are the owners of the undertaking, presumably every part and parcel of works and properties vested in the Commission, is misleading and inaccurate. Under Section 22 of The Power Commission Act:

"The expenditure of the Commission upon any works undertaken under the provisions of this Act for the benefit of any municipality or municipalities which have entered into contracts with the Commission shall be repayable to the Commission by such municipality or municipalities."

Under Section 23 of the Act only, is there any provision made for repayment by municipalities to the Commission of the latter's expenditures upon works undertaken for their benefit and then only by annual payments constituting a part of the "cost of power" for the year as apportioned and adjusted by the Commission. There is no direct responsibility cast by The Power Commission Act upon municipalities to repay the Province the amount of its advances or to relieve it from other obligations assumed even in connection with the works undertaken under the provisions of the Act for their benefit, much less for advances to the Commission for other purposes. The Commission as Agent of the Province has received advances and guarantees totalling over \$150,000,000, and has expended this amount upon works and undertakings. (This amount does not

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The Commission is a direct revelation to the policy of the act of 1914, and a rejection of the principle established by the provisions of the act of 1914 was expressed in that act. It was made plain to all, however, by the provisions of the Hydro-Electricity Inquiry Commission, that the Commission was not the only body that was authorized in the Hydro-Electricity Inquiry Commission. The Commission was held by Hydro-Electricity Inquiry Commission.

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include expenditures on the Central Ontario System or certain bond issues not guaranteed by the Province.) Surely these works and undertakings must be deemed to be held by the Commission as Agent of the Province and the Province to be the beneficial owner thereof. The declaration in agreements between the Commission and municipal corporations, that the works constructed or acquired by the Commission to enable it to supply the power it undertakes to furnish to the municipal corporations are held by the Commission as trustee for them, means no more than that the ownership of these works will pass from the Province to them upon payment to the Commission of such annual amounts, invested in Provincial securities, as will at the expiration of a definite period form a fund sufficient to repay Provincial advances.

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Up to the present time the total of these payments from the municipalities is sufficient to repay not more than two per cent. of the advances of the Province, and to this extent only are municipal corporations in any sense beneficial owners of the works and properties vested in the Commission at this time. Extensions and improvements are continuously being made to these works and properties, further advances being obtained from the Province for the purpose. Consequently, the proportionate interest of the municipalities in ownership is not materially increasing. Thus it will be seen that it will certainly be a very long period before complete ownership passes to them and in fact so long as expenditures are made it will never pass wholly to them. The impracticability of the municipalities taking "such steps as will relieve the Provincial Government from all financial responsibility and place the administration and control of the Hydro-Electric System in the hands of the municipalities

who are owners and are financially responsible for the undertaking" in evident.

The relation of the Commission to municipalities under The Power Commission Act, varied in some respects by the provisions of other Statutes which are hereinafter noted, involved the supply to them upon their initiative by the Commission of electrical power or energy "at cost". The elements entering into "cost" are determined by the Act and the apportionment and adjustment of this cost is made by the Commission. One of the elements of cost is the annual payment of a sum sufficient to form in a fixed period a sinking fund equal to the amount of the advances of the Province to meet the cost of works, and the cost of works depends entirely upon the judgment and economy exercised by the Commission in matters of administration and construction.

Under a subsequent heading the effect of preliminary estimates of cost or lack of such estimates upon the relationship between the Commission and municipalities, and cases in which dissatisfaction has been expressed, are dealt with.

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and other arrangements of interest and to inform you

These findings are consistent with the findings of other studies that have shown that the use of a structured interview can lead to more accurate and reliable results than an unstructured interview.

There are no other persons named in the report.

Initiative by the Division of Electrical Power or Energy "is best". The

elements having low "cost" are designated by this and the appropriate

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Under a statement heading the subject of previously submitted to

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PART IV - GENERAL FINANCIAL CONDITIONSSection 8METHODS OF KEEPING ACCOUNTS

The reports of our Accountants, Messrs. Price, Waterhouse & Co., entitled "Report upon General Accounting System" and "Detailed Memoranda re General Accounting System", which are transmitted to Your Honour herewith, exhibit the results of a detailed study of the accounting methods of the Commission. Their views are summarized in a statement, which we here quote:

"We feel that we have made a sufficiently thorough survey of the methods of Accounting to say that in our opinion the system is adequate, and efficient, both in respect to the manner in which the duties are apportioned to the various sub-departments, and as regards the records kept. There are one or two points, however, upon which we desire to comment.

- 1.- The only employees at the Head Office who are under bond are the paymaster and his assistant, who are covered in the amount of \$5,000 each. Numerous employees attached to the Field Offices are bonded in individual amounts varying from \$100.00 to \$150,000.00. We think it would be in accordance with prudent business practice to have bonds taken out to cover other employees and officers having to do more or less directly with the receiving or disbursing of funds.
- 2.- We think that a book should be prepared and distributed among the employees of the Accounting and Engineering departments describing in detail the purpose of each account appearing in the card of accounts, and stating specifically the particular items or classes of items which should be charged or credited thereto. We are informed that the issuance of such a book has been considered but has been left in abeyance."

CHAPTER II - REVIEW OF THE COMMISSION'S REPORT

Section 1

REVIEW OF THE COMMISSION'S REPORT

The report of the Commission, dated April 1934, contains a detailed account of the work of the Commission during the period from January 1933 to March 1934. The Commission was organized by the Department of Finance in order to investigate the causes of the financial crisis and to recommend measures for its prevention. The Commission's report is a valuable contribution to the study of the economic situation of the country at that time. Its views are summarized in a statement, which we have quoted.

The Commission has made a very thorough study of the causes of the financial crisis and has recommended measures for its prevention. The Commission's report is a valuable contribution to the study of the economic situation of the country at that time. Its views are summarized in a statement, which we have quoted.

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"In conclusion we wish to state that we have not made any specific investigation of the details of the accounting methods followed in the cases of the -

Ontario Power Company of Niagara Falls

Ontario Transmission Company, Limited

Central Ontario System, or

Electric Railways."

"However, our general investigation of the accounts of those companies and systems has acquainted us with the bases on which the records are kept and having regard thereto and to the results of our enquiry into the detailed records being maintained at Toronto and at Niagara in connection with the Queenston-Chippawa Power Development, we are of the opinion that any further investigation of the accounting systems is unnecessary."

The system of keeping accounts relating to the construction work on the Queenston-Chippawa Development was the subject of additional studies and a further report by our Accountants, and for detailed information thereon reference may be made to their report entitled "Report upon Accounting Systems and Methods Employed at Niagara, in connection with Queenston-Chippawa Power Development".

We find that the methods and system adopted by the Commission in keeping its accounts are adequate and proper and draw attention to the commendation of our Accountants, in which we concur, in respect of the bonding of employees having the custody and expenditure of public moneys and the issuance to them of a book containing detailed standard instructions.

The expenditure for legal expenses was a subject matter of inquiry, in regard to which certain information requested by us from the Commission

It is also noted that we have not made any
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The system of medical assistance existing in the Democratic Republic of Vietnam is based on the principle of universal access to medical care. The system is organized on the basis of the principle of universal access to medical care. The system is organized on the basis of the principle of universal access to medical care.

It is to be noted that the material was prepared by the Commission in 1942 and was not made available to the public until 1964. The Commission's report, in which the material was first made available to the public, is contained in the report of the Commission on the activities of the Communist Party, U.S.A., in the United States, published in 1964.

any, in order to obtain further information requested by us from the Commission.

has been withheld. A Legal Department of the Commission has, we understand, been recently established and better control and adjustment of legal expenses is now probably assured than under the loose system formerly prevailing, under which large amounts were paid for legal services to certain practitioners. During the period from October 31st, 1915, to October 31st, 1922, legal fees paid amounted to approximately \$151,000. This amount includes payments made to three individuals of over \$30,000 each, and a payment to one firm of over \$23,000. With the exception of another payment of \$8,000, the remaining amounts are relatively small. Subsequent to October 31st, 1922, we are informed, large amounts were paid to solicitors in connection with the purchase of those properties of the Toronto Power Company, Limited, which were acquired by the Commission under the terms of the so-called "Clean-Up Deal".

Section 9

INVESTMENT IN POWER AND RAILWAY UNDERTAKINGS OWNED OR OPERATED BY THE COMMISSION

The following is a summary of cash advances, bonds and debentures, issued or assumed, bank loans, etc., as at October 31st, 1922, in respect of the Commission's various undertakings. The amount of \$169,477,965.68 shown below may be regarded as the permanent capital employed as at the above date, in all operations of the Commission:

Niagara and other Power Systems including
the Queenston-Chippawa Power Development

Cash Advanced by Province:

For Niagara and other Systems	\$44,577,234.65	
For Queenston-Chippawa Power Development	61,278,545.52	
To meet deferred interest in respect of the Thunder Bay System	360,915.75	

Bonds and Debentures issued or
assumed by the Commission:

Guaranteed by the Province	35,219,831.95	
Not guaranteed by the Province	8,309,584.72	

Bank Loans Guaranteed by the Province	1,200,000.00	\$150,946,112.59
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Central Ontario System Bonds Issued
by the Province in connection with
the purchase of:

The Central Ontario System	\$ 8,350,000.00	
The Bruton Township Pulpwood Limits	225,000.00	
Cash Advanced by the Province for the purpose of making extensions and improvements	3,532,858.78	12,107,858.78

Hydro-Electric Radial Railways:

Bonds and Debentures issued by the
Commission:

Guaranteed by the Province	\$ 5,314,000.00	
Not Guaranteed by the Province	150,000.00	

Balance owing by the City of Guelph
on account of Purchase Price
of Guelph Radial Railway

144,994.31

Bank Loans:

Guaranteed by the Province	500,000.00	
Not Guaranteed by the Province	315,000.00	6,423,994.31

Total \$169,477,965.68

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Section 10CONSOLIDATED BALANCE SHEET

The Annual Reports of the Auditor of the Accounts of the Commission do not include a consolidated balance sheet of all its undertakings. For the purpose of exhibiting the magnitude of the business of the Commission and to permit comparison of the results with those obtained in large private business enterprises, we deemed it expedient to have prepared a consolidated balance sheet of all the power undertakings constructed or acquired and operated by the Commission under the provisions of The Power Commission Act and The Ontario Niagara Development Acts. Such a balance sheet as of October 31st, 1922, has, accordingly, been prepared by our Accountants in pursuance of our instructions and is inserted herein as page 38.

The assets and liabilities of the Central Ontario System and of Hydro-Electric Railways administered by the Commission are not included therein but are exhibited on separate balance sheets.

The value placed on capital assets of the undertakings, including generating plants, transmission lines, transforming stations and other plant and equipment, is the actual cost thereof and upon this capital cost depends in a large measure the revenue of the Commission, consisting as it does of fixed charges on capital cost as one of the component elements of the cost of power collected from municipalities. The capital cost is easily determined as the assets were acquired entirely by the issue or assumption of bonds and debentures to the amount of \$43,529,416.67, of which

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CONFIDENTIAL AND UNCLASSIFIED

Training in sales, management, and
other business courses

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-11-2010 BY 60322 UCBAW

Between - 1960 . 1 . 1

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-01-2001 BY 60322 UCBAW

Brookville, Pa., 1941. 22 reduced

SECRET

Deputies of the Commission for the

1. 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349

THE INLAND STONE OF CLEVELAND CO. OF CLEVELAND, OH.

Toronto to Port Credit Railway

SECRET

SECRET and other cover comments in the
 1950s and other cover comments in the 1950s

which was delivered on October 11, 1942.

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the situation.

[illegible]

A S S E T S

CAPITAL ASSETS:

Generating plants, transformer and distributing stations, transmission lines, distribution systems, etc.	\$137,687,037.03	
Service Buildings (Toronto Hamilton and Cobourg)	496,444.96	
Office Buildings (Toronto)	660,357.16	
Tools, Office Equipment, etc.	<u>213,094.71</u>	\$139,056,933.86
Water Rights and privileges, franchises, contracts and goodwill		<u>9,885,355.28</u>
		<u>\$146,942,289.14</u>

BALANCE OWING ON SALE of Walkerton Quarry -

Secured by Mortgage 260,000.00

SINKING FUND DEPOSITED with Provincial Treasurer,

including \$30,500 deposited with the Canada Trust Company 1,484,663.19

CURRENT AND WORKING ASSETS:

Construction and maintenance materials and supplies	1,471,216.39	
Power, construction, supply sales and sundry accounts receivable	2,901,819.90	
Amount owing by Toronto and York Radial Railway on current account	227,973.60	
Claims Receivable:		
Against J. J. Albright- secured \$295,633.20		
Against Dominion Government in respect of income taxes paid for the thirteen months ending December 31, 1921, which should be recoverable	<u>72,334.46</u>	367,967.66
Amount due from the Province of Ontario (since paid)		561,853.49
Debentures of the Commission due 1957 purchased in 1918, par value \$115,000 (since sold)	79,844.50	
Cash in banks and on hand	<u>3,202,322.13</u>	8,812,997.67

CASH ADVANCED TO AND INVESTED in Hydro Radial Railways

Comprising:

Toronto to Port Credit Railway being the amount expended upon the purchase of right-of-way, surveying, engineering, administrative expenses and interest 780,035.74

AMOUNT RECEIVABLE out of future revenues from the City of Port

Arthur and other power consumers on the Thunder Bay System being that portion of interest on the Nipigon Development which was deferred at October 31, 1922. 318,320.65

DEFERRED CHARGES to future operations being unamortized bond discount, American exchange premiums, prepaid interest, insurance, etc.

1,554,163.95
\$162,152,470.34

LIABILITIES

PROVINCIAL TREASURER:

Cash advances for Niagara and other systems	\$44,577,234.65	
Cash advances for Queenston-Chippawa Power Development	61,278,545.52	
Portion of interest on investment in Thunder Bay (Nipigon) System - the payment of which is deferred	560,915.75	\$106,216,695.92
Unexpended portion of the sum appropriated by the Legislature to cover expenditures by the Commission for the account of the Province		58,230.11
<u>OUTSTANDING STOCK</u> of the Toronto Power Company Limited (par)		1,150.00
<u>BONDS AND DEBENTURES</u> issued or assumed by the Commission in connection with the purchase of the Ontario Power Company, the Toronto Power Company and other power properties		
Guaranteed by the Province	35,219,831.95	
Not guaranteed by the Province	8,309,584.72	43,529,416.67
<u>ADVANCES BY THE BANK OF MONTREAL</u> in connection with the construction of the third pipe line of the Ontario Power Company, (secured by hypothecation of \$1,400,000 1st Mortgage 5% Bonds of the Ontario Power Company and guaranteed by the Province)		1,200,000.00
<u>OTHER LIABILITIES:</u>		
Accounts payable and accrued charges	1,071,754.31	
Accrued interest payable	507,062.14	
Insurance Claims and Awards	638,547.86	
Central Ontario System - cash held on Deposit for that system	363,400.20	
Hydro-Radial Railways - cash held on Deposit for them	69,310.64	2,650,075.15
<u>RESERVES:</u>		
For renewal of plant and equipment	4,865,359.87	
For sinking fund for the repayment of cash advances by the Province and for the retirement of Bonds and Debentures issued or assumed by the Commission	2,677,947.09	
For contingencies	698,786.37	8,242,093.33
<u>UNDISTRIBUTED CREDIT BALANCES</u> on storehouse and power companies' operation		254,809.16

CONTINGENT LIABILITIES:

In respect of contracts entered into for works under construction	\$2,138,207.69	\$162,152,470.34
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STATEMENT

THE BOARD OF DIRECTORS OF THE TORONTO POWER COMPANY
has pleasure in presenting to the shareholders the following statement of the results of the operations of the company during the year ended December 31, 1910.

The company has during the year expended for the purchase of land and for the construction of the new power house and for the improvement of the water works, a total sum of \$1,200,000.00, of which \$800,000.00 has been paid in cash and the balance of \$400,000.00 has been provided for by the issue of new shares of capital stock.

The company has also during the year expended for the purchase of fuel and for the maintenance of the plant, a total sum of \$1,500,000.00, of which \$1,000,000.00 has been paid in cash and the balance of \$500,000.00 has been provided for by the issue of new shares of capital stock.

The company has also during the year expended for the purchase of machinery and for the improvement of the plant, a total sum of \$500,000.00, of which \$300,000.00 has been paid in cash and the balance of \$200,000.00 has been provided for by the issue of new shares of capital stock.

The company has also during the year expended for the purchase of land and for the construction of the new power house and for the improvement of the water works, a total sum of \$1,200,000.00, of which \$800,000.00 has been paid in cash and the balance of \$400,000.00 has been provided for by the issue of new shares of capital stock.

The company has also during the year expended for the purchase of machinery and for the improvement of the plant, a total sum of \$500,000.00, of which \$300,000.00 has been paid in cash and the balance of \$200,000.00 has been provided for by the issue of new shares of capital stock.

The company has also during the year expended for the purchase of land and for the construction of the new power house and for the improvement of the water works, a total sum of \$1,200,000.00, of which \$800,000.00 has been paid in cash and the balance of \$400,000.00 has been provided for by the issue of new shares of capital stock.

The company has also during the year expended for the purchase of machinery and for the improvement of the plant, a total sum of \$500,000.00, of which \$300,000.00 has been paid in cash and the balance of \$200,000.00 has been provided for by the issue of new shares of capital stock.

BONDS AND DEBENTURES ISSUED OR ASSURED BY THE COMMISSION,
GUARANTEED BY THE PROVINCE OF ONTARIO

<u>Description</u>	<u>Amount</u>
Forty-year 4% debentures of the Commission, maturing August 1, 1957, issued to cover the purchase of the capital stock of The Ontario Power Company of Niagara Falls	\$8,000,000.00
Twenty-year 5% debentures of the Commission, maturing July 1, 1941, issued for the purpose of retiring an issue of The Ontario Power Company which matured in 1921	3,200,000.00
Twenty-year 5% Bonds of the Commission, maturing December 1, 1940, issued to cover the purchase price of the capital stock of The Toronto Power Company, Limited, and certain electrical power equipment of the Toronto and York Radial Railway	619,000.00
Forty-year 4% debentures of the Commission, maturing June 1, 1958, issued in connection with the purchase of the Essex System	200,000.00
Ten-year 5% debentures of the Commission, maturing June 1, 1928, issued in connection with the purchase of the Essex System	26,000.00
Forty-year 4% debentures of the Commission, maturing December 1, 1958, issued to cover the purchase price of the Thorold System	100,000.00
First Mortgage 5% Gold Bonds of The Ontario Power Company, due February 1, 1943, issued and outstanding (\$1,400,000 pledged with Bank of Montreal as security for loan of \$1,200,000 to the Hydro-Electric Power Commission)	9,092,000.00
First Mortgage 5% Gold Bonds of The Ontario Transmission Company, Limited, due May 1, 1945	1,599,000.00
Guaranteed 4-1/2% debenture stock of The Toronto Power Company due May 1, 1941, guaranteed by the Hydro-Electric Power Commission and the Province of Ontario	12,383,831.95
Total shown in Foregoing Balance Sheet ...	\$35,219,831.95

11-20-68 10:00 AM 11-20-68 10:00 AM

1990

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

[illegible]

1. The following information was obtained from the Ontario
2. Department of Lands and Forests, dated 1941, issued for the purpose
3. of setting aside land of the Ontario Government
4. for the establishment of a National Park.

.....
 The above is a true and correct copy of the
 original as the same was presented to me
 on December 1, 1940, and I am in possession
 of the same as of the date of this report.

Also see President of the House of Representatives
meeting June 2, 1960, at Washington

Long-term of information system

10-10-68

100,000.00

11,000,000 to 12,000,000 (about 100,000,000) ... 2,000,000,000

Transmission Company, Limited, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 91

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Total stress in developing nations: 100,000,000

<u>Description</u>	<u>Amount</u>
Debentures assumed by the Commission in connection with certain proper- ties now included in the Muskoka System	\$ 44,884.72
5% Mortgage Bonds of the Toronto Power Company, due July 1, 1924, secured by Preference Stock of the Electrical Development Company of Ontario, Limited, and guaranteed by the Toronto Railway Company	4,103,200.00
First Mortgage, 5% Gold Bonds of the Electrical Development Com- pany of Ontario, Limited, due May 1, 1941	4,161,500.00

Total Shown in Foregoing Balance Sheet\$8,309,584.72

MADE AND CONTAINED THEREIN IS A SUMMARY OF THE RESULTS
OF THE COMPARISON MADE BY THE COMMISSION
AND OF THE RESULTS OF THE INVESTIGATION

MADE

MADE

MADE AND CONTAINED THEREIN IS A SUMMARY OF THE RESULTS
OF THE COMPARISON MADE BY THE COMMISSION
AND OF THE RESULTS OF THE INVESTIGATION

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MADE AND CONTAINED THEREIN IS A SUMMARY OF THE RESULTS
OF THE COMPARISON MADE BY THE COMMISSION
AND OF THE RESULTS OF THE INVESTIGATION

the sum of \$35,219,831.95 was guaranteed by the Province; by the employment of the proceeds of a demand loan of \$1,200,000 from the Bank of Montreal, also guaranteed by the Province; and by advances from the Province which have aggregated \$106,216,695.92. Apart from a complete valuation of the fixed assets, their real value cannot be determined by the test applicable to a business operated for purposes of profit to the owners, namely, the extent of that profit, but only by considering the proportion that fixed charges in respect of capital cost bear to the total cost of power. It is quite evident that excessive or extravagant expenditures in the construction or acquisition of works and properties materially increases the price of power when such price is on a cost basis.

COPY

The total amount at the credit of sinking fund accounts on October 31st, 1922, was \$2,677,947.09. Of this amount, on that date, there had been paid to the Treasurer of the Province or invested in Provincial securities which were delivered to the Treasurer, the sum of \$1,484,663.19. The difference of \$1,193,283.90 was made up of cash and Provincial securities in the hands of the Commission.

A portion of this \$1,193,283.90 represented amounts credited to sinking fund accounts in respect of bonds issued or assumed by the Commission, the greater part of which have been guaranteed by the Province. The Commission claims that it has the right to retain this portion of sinking funds and that it is not required to invest such funds in Provincial securities or deliver the securities to the Treasurer of the Province. In view of

The sum of \$11,145,000 was authorized by the Commission, by the agreement
of the proceeds of a General Fund of \$1,145,000, from the State of Missouri,
also authorized by the Commission, and by agreement from the State of Missouri
have authorized \$11,145,000. Again from a specific valuation of the
fixed assets, their value cannot be determined by the State application
to a business enterprise for purposes of public use, namely, the
cost of the assets, but only by estimating the probable cost of the
assets in respect of material and labor in the total cost of power. It is
quite evident that extensive and extensive expenditures in the construction
or acquisition of water and electrical generating equipment are given to
power when such price is on a cost basis.

COPY

The total amount of the assets of the State of Missouri is
October 1st, 1933, was \$1,145,000. At this amount, no cost data, from
and from this is the amount of the assets of the State of Missouri.
The difference of \$1,145,000 was made up of cash and financial securities
in the hands of the Commission.

A portion of \$11,145,000, the Commission's assets consisted
of existing fixed assets in respect of which there is no record by the Com-
mission, the greater part of which have been purchased by the Commission. The
Commission claims that it has the right to receive this portion of the
cash and that it is not required to have such funds in financial form.
The Commission claims that it has the right to receive this portion of the cash.

the express provisions of The Power Commission Act that all payments on sinking fund account from municipal corporations and others must be so invested and the securities so delivered, the contention of the Commission is incomprehensible, excepting in those cases where it is otherwise provided in the agreements with the bondholders.

The Auditor of the accounts of the Commission has informed us that he considers the values placed on current and working assets to be fair and sound, and that the accounts receivable may be considered as all collectible, although some of relatively small amount are disputed.

The demand loan from the Bank of Montreal involves the payment of interest at a higher rate than prevails in respect of Provincial borrowings at present, and it would seem that it might well be liquidated by the issue of debentures of the Commission or otherwise, and a saving in payment of interest thus effected. The financing of permanent works by means of bank loans is not consistent with good business practice.

The reserve for contingencies consists largely of amounts set aside in respect of the properties of The Ontario Power Company and the Toronto Power Company, and is commented upon in a subsequent section of this report.

On page 44 will be found a statement of the reserves at October 31st, 1922, according to undertakings; the totals of which are shown in the foregoing Balance Sheet.

The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act. The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act.

The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act. The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act.

The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act. The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act.

The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act. The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act.

The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act. The various provisions of the Patent Act and the various provisions of the Copyright Act are all contained in the same Act, and the various provisions of the Trademark Act are all contained in the same Act.

On page 45 is a balance sheet of Hydro-Electric Radial Railways operated by the Commission.

Included in the balance sheet of Hydro-Electric Radial Railways under the caption of "Bonds and Debentures issued by the Commission and guaranteed by the Province" is an amount of \$2,039,000, forty-year, 4 $\frac{1}{2}$ %, debentures, given in satisfaction of the purchase price of the capital stock and properties of the Sandwich, Windsor & Amherstburg Railway and its subsidiary, the Windsor & Tecumseh Electric Railway. Of this total, debentures to the amount of \$1,250,000 were delivered to the vendors at the time the properties were transferred to the Commission. The remaining debentures amounting to \$789,000 were deposited with the National Trust Company of Toronto as security for the payment of a like amount of first mortgage bonds outstanding against the properties at the date of transfer.

Since that time, the vendors (Detroit United Railways) have retired \$110,000 of these first mortgage bonds and a like amount of debentures of the Commission has been delivered to them by the National Trust Company, so at October 31st, 1922, there had been delivered to the vendors of the property \$1,360,000 of debentures of the Commission, and the remaining \$679,000 continued to be held by the National Trust Company and will be delivered to the vendors as and when they retire the remainder of the \$679,000 outstanding first mortgage bonds now forming a lien upon the properties acquired by the Commission.

STATEMENT OF RESERVESAS AT OCTOBER 31, 1922.

SYSTEM	Reserves For		
	Renewals	Sinking Fund	Contingencies.
Niagara Lines and Stations	\$ 2,475,421.02	\$ 1,302,984.51	\$ 4,853.87
Queenston-Chippawa Power Development (#)	-	-	-
Ontario Power Company	1,387,736.85	488,858.51	189,924.84
Toronto Power Company Limited	365,915.85	459,635.60	434,012.43
<u>Toronto Greater Niagara System</u>	<u>4,227,073.72</u>	<u>2,251,478.62</u>	<u>628,791.14</u>
Thunder Bay	42,435.51	22,115.45	4,601.65
Severn	132,743.72	63,615.38	29,220.08
St. Lawrence	64,743.70	27,577.90	6,255.17
Waddell's	35,564.12	18,022.69	6,068.13
Eugenia	137,200.69	39,047.86	12,301.38
Ottawa	434.59	353.12	-
Muskoka	15,215.17	4,624.05	3,375.57
Rideau	33,771.00	-	7,673.25
Essex	47,954.04	20,211.54	-
Thorold	3,937.46	86,911.41	-
Bonnechere River Storage Dam	-	5,936.99	-
Service Buildings	111,984.52	52,676.94	-
Office Buildings	12,303.55	67,377.16	-
<u>Totals</u>	<u>\$ 4,865,359.87</u>	<u>\$ 2,677,947.09</u>	<u>\$ 698,786.37</u>

(#)The Queenston-Chippawa Power Development
not yet completed.

STATE OF NEW YORK

INVESTMENT INCOME STATEMENT

FOR THE YEAR 1964

Source of Income	Amount	Less: Expenses	Net Income
Dividend Income	\$1,234,567.89	\$123,456.78	\$1,111,111.11
Interest Income	\$567,890.12	\$56,789.01	\$511,101.11
Capital Gains	\$345,678.90	\$34,567.89	\$311,111.01
Rental Income	\$234,567.89	\$23,456.78	\$211,111.11
Other Income	\$123,456.78	\$12,345.67	\$111,111.11
Total	\$2,496,101.58	\$249,610.15	\$2,246,491.43
Less: Federal Income Tax			
Less: State Income Tax			
Less: Local Income Tax			
Total Taxes			
Net Investment Income			

COPY

$$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

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50,000.00
 10,000.00
 20,000.00

00-211,212
 00-211,213
 00-211,214

1. The total amount of the contract is \$100,000.00.
2. The contract is for the purchase of 100,000 shares of common stock of the Corporation.
3. The contract is for the purchase of 100,000 shares of common stock of the Corporation.
4. The contract is for the purchase of 100,000 shares of common stock of the Corporation.
5. The contract is for the purchase of 100,000 shares of common stock of the Corporation.
6. The contract is for the purchase of 100,000 shares of common stock of the Corporation.
7. The contract is for the purchase of 100,000 shares of common stock of the Corporation.
8. The contract is for the purchase of 100,000 shares of common stock of the Corporation.
9. The contract is for the purchase of 100,000 shares of common stock of the Corporation.
10. The contract is for the purchase of 100,000 shares of common stock of the Corporation.

ASSETS

RADIAL RAILWAY PROPERTIES:

Road and Equipment Rights, Franchises and goodwill of -		
The Sandwich, Windsor and Amherstburg Railway	\$2,876,422.74	
The Guelph Radial Railway	395,377.65	
The Toronto and York Radial Railways	<u>2,510,160.57</u>	\$5,781,960.96
Expended upon the purchase of Right-of-Way		
Construction materials less resales,		
Surveying, Engineering, Administrative		
Expenses and interest for the construction		
of -		
The Toronto-Port Credit Radial Railway	\$ 780,035.74	
The Port Credit-St. Catharines Radial		
Railway	<u>481,192.37</u>	1,261,228.11

INVESTMENTS:

City of Windsor 4½% Debentures due April 1, 1960, (since sold)		190,000.00
--	--	------------

<u>CONSTRUCTION</u> and Maintenance, Materials and Supplies, Office Stationery, etc.		263,115.42
--	--	------------

OTHER ASSETS:

Cash in banks and on hand	\$ 228,950.03	
Hydro-Electric Power Commission - Cash held on deposit for Hydro-Radial Railways	69,310.64	
Accounts Receivable	33,099.63	
Due by the City of Guelph on account of the operating deficit of the Guelph Radial Railway	<u>15,062.78</u>	346,423.08

<u>DEFERRED CHARGES</u> to future operations being valuation and other expenses, prepaid insurance, etc.		61,074.75
--	--	-----------

\$7,903,802.32

LIABILITIES

<u>BONDS AND DEBENTURES</u> issued by the Commission in connection with the purchase and rehabilitation of the Sandwich, Windsor and Amherstburg Railway, the Guelph Radial Railway and the Toronto and York Radial Railways		
Guaranteed by the Province	\$5,314,000.00	
Not guaranteed by the Province	<u>150,000.00</u>	\$5,464,000.00
<u>AMOUNT</u> owing to the City of Guelph in connection with the purchase of the Guelph Radial Railway, payable in half-yearly installments as per purchase agreement		
	\$ 150,000.00	
<u>Less</u> - Two installments paid	<u>5,005.69</u>	144,994.31
<u>BANK LOANS:</u>		
Advances to the Commission by the Bank of Montreal		815,000.00
<u>HYDRO-ELECTRIC POWER COMMISSION:</u>		
Cash advanced by the Commission to meet expenditures in connection with the Toronto-Port Credit Radial Railway		780,035.74
<u>OTHER LIABILITIES:</u>		
Accounts Payable	\$ 151,027.48	
Accrued Interest Payable	89,541.80	
Amount owing to the Toronto Power Company on current account	227,973.60	
Provision for Claims and for Injuries and damages	17,444.25	
Provision for unredeemed tickets	<u>6,830.00</u>	492,817.13
<u>RESERVE</u> available for the payment to the City of Toronto of an amount (not yet determined) owing in respect of the operation of the Section of the Metropolitan Division in the City Limits and for the renewal of plant and equipment		
		120,345.26
<u>RESERVE</u> created by installments paid on the purchase price of the Guelph Radial Railway out of revenues of the road and assessments against the City of Guelph		
		5,005.69
<u>PREMIUM</u> received on the sale of the Commission's Debentures	73,166.67	
<u>SURPLUS</u> of the Sandwich, Windsor and Amherstburg Railway	<u>8,437.52</u>	
		<u>\$7,903,802.32</u>
<u>CONTINGENT LIABILITY</u> in respect of contracts entered into for construction materials		
	<u>\$85,383.73</u>	

35.303,303.75

**STATEMENT OF BONDS AND DEBENTURES ISSUED BY THE COMMISSION
IN CONNECTION WITH HYDRO-ELECTRIC RADIAL RAILWAYS
AS AT OCTOBER 31, 1922.**

Outstanding Bonds and Debentures issued by the Commission
and guaranteed by the Province:

Forty-year, 4½% Bonds of the Commission due April 1st, 1960, issued to cover the purchase price of the capital stock and assets of the Sandwich, Windsor & Amherstburg Railway (Total issue \$2,100,000)	\$2,039,000.00
Forty-year, 6% Debentures of the Commission due July 1st, 1961, issued in connection with rehabilitation of the Sandwich, Windsor & Amherstburg Railway	900,000.00
Twenty-year 6% Debentures of the Commission given in pur- chase of the capital stock of the Toronto and York Radial Railway Company and the Schomberg and Aurora Railway Company	2,375,000.00
	<hr/>
	\$5,314,000.00
Ten-year, 6% Bonds of the Commission due May 1st, 1931, (not guaranteed by the Province) issued in connection with the rehabilitation of the Guelph Radial Railway	150,000.00
	<hr/>
	\$5,464,000.00

Statement of Advances by the Bank of Montreal to the Commission
to meet Expenditures in respect of Hydro-Electric Radial Railways.

Advances to the Commission by the Bank of Montreal:

For rehabilitation of the Sandwich, Windsor & Amherstburg Railway (secured by hypothecation of \$61,000 Hydro Radial Debentures issued by the Commission and \$190,000 Debentures of the City of Windsor)	\$ 200,000.00
For rehabilitation of the Guelph Radial Railway (as security for this loan the Bank of Montreal holds \$150,000 Hydro Radial Debentures of the Commission, which have been signed by the Chairman but not by the Secretary nor has the Commis- sion's seal been affixed thereto)	115,000.00
For expenditures made in connection with the Port Credit and St. Catharines Railway (secured by hypothecation of \$1,200,000 Hydro Radial Debentures, being part of the issue of \$11,360,363 guaranteed by the Province of Ontario)	500,000.00
	<hr/>
	\$ 815,000.00

STATEMENT OF ASSETS AND LIABILITIES OF THE COMMISSION
AT THE CLOSE OF THE FISCAL YEAR 1941

The following table shows the assets and liabilities of the Commission at the close of the fiscal year 1941.

Assets of the Commission at April 1st, 1941, 1942
Amount to cover the purchase price of the capital stock
and assets of the Commission, which is approximately \$1,000,000
Total assets \$1,000,000

Liabilities of the Commission at April 1st, 1941, 1942
Amount in connection with rehabilitation of the
Commission, which is approximately \$1,000,000
Total liabilities \$1,000,000

Twenty-year of operations of the Commission given in form
of the capital stock of the Commission and the assets
of the Commission and the Commission and assets of the Commission
Total assets and liabilities \$1,000,000

\$1,000,000.00

COPY

Twenty-year of operations of the Commission given in form
of the capital stock of the Commission and the assets
of the Commission and the Commission and assets of the Commission
Total assets and liabilities \$1,000,000

\$1,000,000.00

Statement of operations of the Commission at the close of the fiscal year 1941, 1942

Reference to the Commission by the Board of Directors

The Commission at the close of the fiscal year 1941, 1942
has received by subscription of \$1,000,000 from the
Commission and the Commission and assets of the Commission
Total assets and liabilities \$1,000,000

\$1,000,000.00

The Commission at the close of the fiscal year 1941, 1942
has received by subscription of \$1,000,000 from the
Commission and the Commission and assets of the Commission
Total assets and liabilities \$1,000,000

\$1,000,000.00

The Commission at the close of the fiscal year 1941, 1942
has received by subscription of \$1,000,000 from the
Commission and the Commission and assets of the Commission
Total assets and liabilities \$1,000,000

\$1,000,000.00

For information concerning debentures deposited with the Commission by the municipalities and bonds issued by the Commission in respect of the proposed Toronto-St. Catharines Radial Railway, we refer you to our report on "Hydro-Electric Radial Railways", dated September 7th, 1923.

We include herein as page 48 a balance sheet as at October 31st, 1922, of the Central Ontario System which is owned by the Province and operated by the Commission. For details concerning the properties comprising this undertaking and the operating results thereof, we refer you to our report on "Central Ontario System", dated March 2nd, 1923. At the time the foregoing report was prepared, only tentative results were available for 1922 operations and on the basis of these tentative results the total operating deficit to October 31st, 1922, was stated at about \$207,000. Since that time the Commission decreased its renewal rates and made sundry other adjustments reducing the deficit of \$207,000 to \$155,119.54 which amount is shown in the balance sheet included herewith.

Section 11

PROPERTY ACCOUNTS

Our Accountants have prepared a summary of the property account of the power undertakings of the Commission, exclusive of the Central Ontario System, which shows the following:

27

The information presented herewith is intended to be
 furnished to the Commission and is being furnished to the Commission in
 support of the proposed Electric-Edison Railways, as set forth
 in the report on "Electric-Edison Railways," dated September

27, 1903.

We include herewith as page 43 a balance sheet as of October
 31st, 1903, of the Electric-Edison Railways, which is based on the operating
 and operating by the Commission. For details concerning the proposed com-
 plying this statement and the operating results thereof, we refer you
 to our report on "Electric-Edison Railways," dated March 27, 1903. It is
 also the operating report of the Electric-Edison Railways, which was com-
 pleted for the year ending October 31st, 1903, and is the basis of the tentative results the
 total operating costs to October 31st, 1903, was about \$200,000.
 Since that time the Commission has received reports and made many
 other adjustments resulting in the balance as of October 31st, 1903, which
 amount is shown in the balance sheet included herewith.

Very truly yours,

Howell Electric Machine Company

The Commission has prepared a summary of the property owned
 at the power station of the Electric-Edison Railways, which is the subject of this
 report, which is the following:

THE UNIVERSITY OF CHICAGO PRESS

1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 26

5. *Journal of the American Medical Association*, 1990; 263: 2537-2541.

2000 1999 1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900

2014-15-2015-16

CENTRAL ONTARIOBALANCE SHEETA S S E T SCAPITAL ASSETS- (including intangible values)Central Ontario

Power Developments and Hydraulic Rights	\$6,155,445.01	
Transformer Stations	725,237.53	
Transmission Lines	<u>1,570,974.29</u>	\$8,451,656.83
Local Utilities - Electric, Water, Gas and Street Railway		2,534,518.81
Service Buildings		17,477.57

Nipissing

Power Development and Steam Plant	425,406.89	
Transformer Stations	36,177.40	
Transmission Lines	<u>43,322.00</u>	504,906.29
Local Utilities - Electric		199,842.68
Rural Lines		34,328.16
Pulpmill and Pulpwood Areas		506,182.96
Tools and Equipment		<u>56,775.86</u>
		\$12,305,689.16

INVESTMENTS:

Debentures of the Town of Napanee	19,637.66	
Debentures of the Town of Trenton	12,499.15	
Accrued Interest thereon	<u>1,240.88</u>	33,377.69

CURRENT AND WORKING ASSETS:

Cash in Banks	2,286.14	
Accounts Receivable (less Reserve)	220,467.63	
Hydro-Electric Power Commission of Ontario	363,400.20	
Materials and Supplies	<u>359,629.01</u>	945,782.98

DEFERRED CHARGES TO FUTURE OPERATIONS:

Prepaid expenses	26,044.94	
Deferred Maintenance, re-insulation of transmission lines	<u>28,438.87</u>	54,483.81

OPERATING DEFICIT:155,119.54\$13,494,453.18

SYSTEM

OCTOBER 31, 1922.

LIABILITIESPROVINCIAL TREASURER (ONTARIO)

Purchase price of System paid by the Province in 4% debentures due March 1, 1926,	\$8,350,000.00	
Cash advances by the Province	3,532,858.78	
Debentures (5% due 1927) issued by the Province in connection with the purchase of the Bruton Township Pulpwood Areas	225,000.00	\$12,107,858.78

CURRENT AND ACCRUED LIABILITIES:

Accounts Payable and Accrued Charges	111,317.11	
Consumers' Deposits	13,276.37	
Unearned Water Rents	2,400.00	
Due Municipalities (Paid in excess of power costs)	4,278.65	131,272.13

RESERVES:

For renewals	\$1,179,922.25	
For Sinking Fund	37,342.02	
For contingencies	36,058.00	1,255,322.27

\$13,494,453.18

Particulars	Amount	Per cent. of Total
Power Developments	\$98,892,319.62	66.41%
Transmission Lines	22,140,688.96	14.86%
Transformer and Distributing Stations	15,474,198.98	10.39%
Rural Lines	1,115,205.24	0.74%
Water rights, franchises, goodwill, etc.	9,885,355.23	6.64%
Miscellaneous Buildings, tools, etc.	1,434,521.06	0.96%
	\$148,942,289.14	100.00%

The foregoing indicates that 66.41% of the total capital investment is represented by power developments, while 6.64% is represented by intangibles, which, for the most part, represent water rights at Niagara Falls acquired in connection with the purchase of The Ontario Power Company and the Toronto Power Company. If the intangibles were grouped with power developments, as they might be, 73% of the total investment would be represented by power developments, which leaves 27% for transmission lines, transformer stations and so forth.

In addition to the amounts shown above in respect of rural lines, the Commission charged \$202,953.07 to the Province up to October 31st, 1922, on account of bonuses receivable from the Province under authority of the Rural Hydro-Electric Distribution Act, 1921. If this amount were added to the total shown in the foregoing statement, the total investment in rural lines would amount to \$1,318,158.31 at the close of the fiscal year, 1922. We understand that up to October 31st, 1923, the Province had paid bonuses to the Commission on account of the construction of rural lines amounting to \$425,000.00

Particulars	Amount	Per cent. of Total
Power Plant equipment	\$28,818,822.82	66.4%
Transmission lines	\$2,143,388.98	14.8%
Transformer and switch-		
gear equipment	\$1,474,184.32	10.1%
Substation equipment	\$1,132,388.98	8.7%
General plant	\$1,474,184.32	10.1%
Interest on bonds, mortgages,		
and other securities	\$1,474,184.32	10.1%
Reserve fund	\$1,474,184.32	10.1%
Total	\$43,000,000.00	100.0%

The foregoing statement shows that 66.4% of the total capital investment is represented by power plant equipment, which 6.4% is represented by transmission lines, for the most part, equipment with which no change will be required in connection with the extension of the hydro power project and the power plant equipment. It is anticipated that power development, as they arise, will be represented by power development, which leaves 70% for transmission lines, transformer stations and so forth.

In addition to the amount shown above in respect of total lines, the Commission showed \$4,125,000.00 for the provision of a hydro plant, 1931, on account of the fact that the hydro power project is the subject of the Hydro-Electric Division Act, 1911. It is noted that the total shown in the foregoing statement, the total investment in total lines would amount to \$43,000,000.00 at the close of the fiscal year, 1931. The Commission has up to October 1931, 1931, the provision and has shown in the statement an amount of the construction of total lines amounting to \$4,125,000.00

The detailed statement on page 51 also shows that over 90% ✓
of the total capital investment in all the undertakings of the Commission
is represented by the Greater Niagara System.

Section 12

OPERATING ACCOUNTS

In each of our reports upon the several undertakings of the Commission we have given our conclusions upon the operation of each undertaking. Operating expenses form a relatively small proportion of the total cost of power and it seems unnecessary to comment here upon differences in the operating accounts of the various undertakings, as injustices in the case of one as compared with others are but of slight importance to power consumers. The apportionment of such items as Head Office Expenses requires intricate and exact calculations on the part of the Commission and its officers and seems to be made upon a basis equitable to all concerned. There should be no cause for complaint by any municipal corporation of its proportion of the operating costs apportioned to it and others in the same system. Between systems operating accounts may display greater operating expenses in one than in another, but this is naturally to be expected when consideration is given to the varying extent of the power loads and the location of generating plants. Attention, however, should be drawn to overhead expenses, and the necessity of rigid economy in order to keep these at as low a point as possible, consistent with efficient administration.

The detailed statement on page 82 also shows that very few of the total capital investment in all the hydroelectric projects of the Commission is represented by the Greater Niagara System.

Section II

GENERAL PRINCIPLES

In view of our reports upon the several undertakings of the Commission we have given our conclusions upon the question of each undertaking. Operating expenses form a relatively small proportion of the total cost of power and it seems unnecessary to discuss them upon this occasion. The operating accounts of the various undertakings, as indicated in the case of each, are reported with the data and are of slight importance in comparison. The expenditures of each plant as they appear in the reports indicate and show relationships on the part of the Commission and the various undertakings and seem to be fairly complete in all respects. There should be no misunderstanding by any individual regarding the purpose of the operating costs reported for it and shown in the same report. Between system operating accounts and other general operating expenses in our plan is included, but this is naturally to be expected when classification is given to the various parts of the power plants and the location of power. The plan, however, should be drawn in practical operation, and the necessity of this account is shown in each case as we have said in the past, conclusions will naturally be obtained.

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HYDRO - ELECTRIC POWER
SUMMARY OF
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System	Power Developments	Transmission Lines	Transformer and Distributing Stations
Niagara Lines and Stations	\$	\$ 10,340,535.66 (a)	\$10,779,068.25
Queenston-Chippawa Power Development	65,642,615.86	-	-
Ontario Power Company	15,233,967.46	2,024,298.30	1,084,725.19
Toronto Power Company Limited	9,652,910.41 (b)	6,615,714.08	2,209,574.94
<u>Total Greater Niagara System</u>	<u>\$90,528,593.73</u>	<u>\$ 18,980,548.04</u>	<u>\$14,073,368.38</u>
Thunder Bay	5,772,135.31	631,638.36	238,998.46
Severn	530,275.51	566,276.93	211,549.91
St. Lawrence	-	521,052.01	404,747.25
Wadell's	142,379.35	203,166.79	31,485.22
Eugenia	994,737.54	804,940.51	261,265.66
Ottawa	-	-	1,083.00
Muskoka	131,107.74	54,420.23	9,896.85
Rideau	756,926.70	261,954.20	60,855.90
Essex	-	116,661.89	72,998.96
Thorold	-	-	27,949.39
Beauchere River Storage Dams	34,165.74	-	-
Service Buildings (Toronto, Hamilton and Cobourg)	-	-	-
Office Buildings (Toronto)	-	-	-
Tools, Office Equipment, etc.	-	-	-
Work in Progress	-	-	-
<u>Total</u>	<u>\$96,892,319.62</u>	<u>\$ 22,140,668.96</u>	<u>\$15,474,198.98</u>
<u>Per Cent. to Total</u>	<u>66.41%</u>	<u>14.86%</u>	<u>10.39%</u>

(a) Includes \$240,294.00 representing Transmission and Distribution Equipment carried in the Accounts of the Toronto and York Radial Railway

(b) Includes Steam Plant at Toronto and Scott Street properties.

(c) Includes Distributing Systems.

Rural Lines	Water Rights, Franchises Contracts and Goodwill	Miscellaneous	TOTAL	Per Cent To Total
\$ 839,540.85	\$ -	\$ -	\$ 21,959,144.76	14.74%
-	-	-	65,642,615.86	44.07%
-	7,304,113.07	-	25,647,104.02	17.22%
-	2,358,837.62	-	20,836,137.05	13.99%
\$ 839,540.85	\$ 9,662,950.69	\$ -	\$ 134,085,001.69	90.02%
-	-	-	6,642,770.13)	
10,188.55	124,011.00	-	1,442,301.90)	
29,462.82	-	-	1,035,262.08)	
14,955.95	-	-	394,007.31)	
5,309.90	-	-	2,066,253.61)	
24,866.74	-	-	25,949.74)	
-	17,366.00	-	212,790.82)	
-	-	-	1,079,746.80)	
190,880.43(a)	6,900.00	-	387,441.28)	9.98%
-	74,127.59	-	102,076.98)	
-	-	-	34,165.74)	
-	-	496,444.96	496,444.96)	
-	-	660,357.16	660,357.16)	
-	-	213,094.71	213,094.71)	
-	-	64,624.23	64,624.23)	
\$ 1,115,205.24	\$ 9,885,355.28	\$ 1,434,521.06	\$ 148,942,289.14	100.00%
00.74%	6.64%	0.96%	100.00%	

INCOME TAX		PROPERTY TAX		SALES TAX	
Year	Amount	Year	Amount	Year	Amount
1971	\$1,234,567.89	1971	\$2,345,678.90	1971	\$3,456,789.01
1972	\$1,345,678.90	1972	\$2,456,789.01	1972	\$3,567,890.12
1973	\$1,456,789.01	1973	\$2,567,890.12	1973	\$3,678,901.23
1974	\$1,567,890.12	1974	\$2,678,901.23	1974	\$3,789,012.34
1975	\$1,678,901.23	1975	\$2,789,012.34	1975	\$3,890,123.45
1976	\$1,789,012.34	1976	\$2,890,123.45	1976	\$3,901,234.56
1977	\$1,890,123.45	1977	\$2,901,234.56	1977	\$4,012,345.67
1978	\$1,901,234.56	1978	\$3,012,345.67	1978	\$4,123,456.78
1979	\$2,012,345.67	1979	\$3,123,456.78	1979	\$4,234,567.89
1980	\$2,123,456.78	1980	\$3,234,567.89	1980	\$4,345,678.90
1981	\$2,234,567.89	1981	\$3,345,678.90	1981	\$4,456,789.01
1982	\$2,345,678.90	1982	\$3,456,789.01	1982	\$4,567,890.12
1983	\$2,456,789.01	1983	\$3,567,890.12	1983	\$4,678,901.23
1984	\$2,567,890.12	1984	\$3,678,901.23	1984	\$4,789,012.34
1985	\$2,678,901.23	1985	\$3,789,012.34	1985	\$4,890,123.45
1986	\$2,789,012.34	1986	\$3,890,123.45	1986	\$4,901,234.56
1987	\$2,890,123.45	1987	\$3,901,234.56	1987	\$5,012,345.67
1988	\$2,901,234.56	1988	\$4,012,345.67	1988	\$5,123,456.78
1989	\$3,012,345.67	1989	\$4,123,456.78	1989	\$5,234,567.89
1990	\$3,123,456.78	1990	\$4,234,567.89	1990	\$5,345,678.90
1991	\$3,234,567.89	1991	\$4,345,678.90	1991	\$5,456,789.01
1992	\$3,345,678.90	1992	\$4,456,789.01	1992	\$5,567,890.12
1993	\$3,456,789.01	1993	\$4,567,890.12	1993	\$5,678,901.23
1994	\$3,567,890.12	1994	\$4,678,901.23	1994	\$5,789,012.34
1995	\$3,678,901.23	1995	\$4,789,012.34	1995	\$5,890,123.45
1996	\$3,789,012.34	1996	\$4,890,123.45	1996	\$5,901,234.56
1997	\$3,890,123.45	1997	\$4,901,234.56	1997	\$6,012,345.67
1998	\$3,901,234.56	1998	\$5,012,345.67	1998	\$6,123,456.78
1999	\$4,012,345.67	1999	\$5,123,456.78	1999	\$6,234,567.89
2000	\$4,123,456.78	2000	\$5,234,567.89	2000	\$6,345,678.90
2001	\$4,234,567.89	2001	\$5,345,678.90	2001	\$6,456,789.01
2002	\$4,345,678.90	2002	\$5,456,789.01	2002	\$6,567,890.12
2003	\$4,456,789.01	2003	\$5,567,890.12	2003	\$6,678,901.23
2004	\$4,567,890.12	2004	\$5,678,901.23	2004	\$6,789,012.34
2005	\$4,678,901.23	2005	\$5,789,012.34	2005	\$6,890,123.45
2006	\$4,789,012.34	2006	\$5,890,123.45	2006	\$6,901,234.56
2007	\$4,890,123.45	2007	\$5,901,234.56	2007	\$7,012,345.67
2008	\$4,901,234.56	2008	\$6,012,345.67	2008	\$7,123,456.78
2009	\$5,012,345.67	2009	\$6,123,456.78	2009	\$7,234,567.89
2010	\$5,123,456.78	2010	\$6,234,567.89	2010	\$7,345,678.90
2011	\$5,234,567.89	2011	\$6,345,678.90	2011	\$7,456,789.01
2012	\$5,345,678.90	2012	\$6,456,789.01	2012	\$7,567,890.12
2013	\$5,456,789.01	2013	\$6,567,890.12	2013	\$7,678,901.23
2014	\$5,567,890.12	2014	\$6,678,901.23	2014	\$7,789,012.34
2015	\$5,678,901.23	2015	\$6,789,012.34	2015	\$7,890,123.45
2016	\$5,789,012.34	2016	\$6,890,123.45	2016	\$7,901,234.56
2017	\$5,890,123.45	2017	\$6,901,234.56	2017	\$8,012,345.67
2018	\$5,901,234.56	2018	\$7,012,345.67	2018	\$8,123,456.78
2019	\$6,012,345.67	2019	\$7,123,456.78	2019	\$8,234,567.89
2020	\$6,123,456.78	2020	\$7,234,567.89	2020	\$8,345,678.90
2021	\$6,234,567.89	2021	\$7,345,678.90	2021	\$8,456,789.01
2022	\$6,345,678.90	2022	\$7,456,789.01	2022	\$8,567,890.12
2023	\$6,456,789.01	2023	\$7,567,890.12	2023	\$8,678,901.23
2024	\$6,567,890.12	2024	\$7,678,901.23	2024	\$8,789,012.34
2025	\$6,678,901.23	2025	\$7,789,012.34	2025	\$8,890,123.45
2026	\$6,789,012.34	2026	\$7,890,123.45	2026	\$8,901,234.56
2027	\$6,890,123.45	2027	\$7,901,234.56	2027	\$9,012,345.67
2028	\$6,901,234.56	2028	\$8,012,345.67	2028	\$9,123,456.78
2029	\$7,012,345.67	2029	\$8,123,456.78	2029	\$9,234,567.89
2030	\$7,123,456.78	2030	\$8,234,567.89	2030	\$9,345,678.90
2031	\$7,234,567.89	2031	\$8,345,678.90	2031	\$9,456,789.01
2032	\$7,345,678.90	2032	\$8,456,789.01	2032	\$9,567,890.12
2033	\$7,456,789.01	2033	\$8,567,890.12	2033	\$9,678,901.23
2034	\$7,567,890.12	2034	\$8,678,901.23	2034	\$9,789,012.34
2035	\$7,678,901.23	2035	\$8,789,012.34	2035	\$9,890,123.45
2036	\$7,789,012.34	2036	\$8,890,123.45	2036	\$9,901,234.56
2037	\$7,890,123.45	2037	\$8,901,234.56	2037	\$10,012,345.67
2038	\$7,901,234.56	2038	\$9,012,345.67	2038	\$10,123,456.78
2039	\$8,012,345.67	2039	\$9,123,456.78	2039	\$10,234,567.89
2040	\$8,123,456.78	2040	\$9,234,567.89	2040	\$10,345,678.90
2041	\$8,234,567.89	2041	\$9,345,678.90	2041	\$10,456,789.01
2042	\$8,345,678.90	2042	\$9,456,789.01	2042	\$10,567,890.12
2043	\$8,456,789.01	2043	\$9,567,890.12	2043	\$10,678,901.23
2044	\$8,567,890.12	2044	\$9,678,901.23	2044	\$10,789,012.34
2045	\$8,678,901.23	2045	\$9,789,012.34	2045	\$10,890,123.45
2046	\$8,789,012.34	2046	\$9,890,123.45	2046	\$10,901,234.56
2047	\$8,890,123.45	2047	\$9,901,234.56	2047	\$11,012,345.67
2048	\$8,901,234.56	2048	\$10,012,345.67	2048	\$11,123,456.78
2049	\$9,012,345.67	2049	\$10,123,456.78	2049	\$11,234,567.89
2050	\$9,123,456.78	2050	\$10,234,567.89	2050	\$11,345,678.90
2051	\$9,234,567.89	2051	\$10,345,678.90	2051	\$11,456,789.01
2052	\$9,345,678.90	2052	\$10,456,789.01	2052	\$11,567,890.12
2053	\$9,456,789.01	2053	\$10,567,890.12	2053	\$11,678,901.23
2054	\$9,567,890.12	2054	\$10,678,901.23	2054	\$11,789,012.34
2055	\$9,678,901.23	2055	\$10,789,012.34	2055	\$11,890,123.45
2056	\$9,789,012.34	2056	\$10,890,123.45	2056	\$11,901,234.56
2057	\$9,890,123.45	2057	\$10,901,234.56	2057	\$12,012,345.67
2058	\$9,901,234.56	2058	\$11,012,345.67	2058	\$12,123,456.78
2059	\$10,012,345.67	2059	\$11,123,456.78	2059	\$12,234,567.89
2060	\$10,123,456.78	2060	\$11,234,567.89	2060	\$12,345,678.90
2061	\$10,234,567.89	2061	\$11,345,678.90	2061	\$12,456,789.01
2062	\$10,345,678.90	2062	\$11,456,789.01	2062	\$12,567,890.12
2063	\$10,456,789.01	2063	\$11,567,890.12	2063	\$12,678,901.23
2064	\$10,567,890.12	2064	\$11,678,901.23	2064	\$12,789,012.34
2065	\$10,678,901.23	2065	\$11,789,012.34	2065	\$12,890,123.45
2066	\$10,789,012.34	2066	\$11,890,123.45	2066	\$12,901,234.56
2067	\$10,890,123.45	2067	\$11,901,234.56	2067	\$13,012,345.67
2068	\$10,901,234.56	2068	\$12,012,345.67	2068	\$13,123,456.78
2069	\$11,012,345.67	2069	\$12,123,456.78	2069	\$13,234,567.89
2070	\$11,123,456.78	2070	\$12,234,567.89	2070	\$13,345,678.90
2071	\$11,234,567.89	2071	\$12,345,678.90	2071	\$13,456,789.01
2072	\$11,345,678.90	2072	\$12,456,789.01	2072	\$13,567,890.12
2073	\$11,456,789.01	2073	\$12,567,890.12	2073	\$13,678,901.23
2074	\$11,567,890.12	2074	\$12,678,901.23	2074	\$13,789,012.34
2075	\$11,678,901.23	2075	\$12,789,012.34	2075	\$13,890,123.45
2076	\$11,789,012.34	2076	\$12,890,123.45	2076	\$13,901,234.56
2077	\$11,890,123.45	2077	\$12,901,234.56	2077	\$14,012,345.67
2078	\$11,901,234.56	2078	\$13,012,345.67	2078	\$14,123,456.78
2079	\$12,012,345.67	2079	\$13,123,456.78	2079	\$14,234,567.89
2080	\$12,123,456.78	2080	\$13,234,567.89	2080	\$14,345,678.90
2081	\$12,234,567.89	2081	\$13,345,678.90	2081	\$14,456,789.01
2082	\$12,345,678.90	2082	\$13,456,789.01	2082	\$14,567,890.12
2083	\$12,456,789.01	2083	\$13,567,890.12	2083	\$14,678,901.23
2084	\$12,567,890.12	2084	\$13,678,901.23	2084	\$14,789,012.34
2085	\$12,678,901.23	2085	\$13,789,012.34	2085	\$14,890,123.45
2086	\$12,789,012.34	2086	\$13,890,123.45	2086	\$14,901,234.56
2087	\$12,890,123.45	2087	\$13,901,234.56	2087	\$15,012,345.67
2088	\$12,901,234.56	2088	\$14,012,345.67	2088	\$15,123,456.78
2089	\$13,012,345.67	2089	\$14,123,456.78	2089	\$15,234,567.89
2090	\$13,123,456.78	2090	\$14,234,567.89	2090	\$15,345,678.90
2091	\$13,234,567.89	2091	\$14,345,678.90	2091	\$15,456,789.01
2092	\$13,345,678.90	2092	\$14,456,789.01	2092	\$15,567,890.12
2093	\$13,456,789.01	2093	\$14,567,890.12	2093	\$15,678,901.23
2094	\$13,567,890.12	2094	\$14,678,901.23	2094	\$15,789,012.34
2095	\$13,678,901.23	2095	\$14,789,012.34	2095	\$15,890,123.45
2096	\$13,789,012.34	2096	\$14,890,123.45	2096	\$15,901,234.56
2097	\$13,890,123.45	2097	\$14,901,234.56	2097	\$16,012,345.67
2098	\$13,901,234.56	2098	\$15,012,345.67	2098	\$16,123,456.78
2099	\$14,012,345.67	2099	\$15,123,456.78	2099	\$16,234,567.89
2100	\$14,123,456.78	2100	\$15,234,567.89	2100	\$16,345,678.90

- (2) Includes 1946-1949-50 year-rounding deduction for depreciation
 (3) Includes 1946-1949-50 year-rounding deduction for depreciation
 (4) Includes 1946-1949-50 year-rounding deduction for depreciation
 (5) Includes 1946-1949-50 year-rounding deduction for depreciation
 (6) Includes 1946-1949-50 year-rounding deduction for depreciation
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 (8) Includes 1946-1949-50 year-rounding deduction for depreciation
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 (10) Includes 1946-1949-50 year-rounding deduction for depreciation
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 (12) Includes 1946-1949-50 year-rounding deduction for depreciation
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 (14) Includes 1946-1949-50 year-rounding deduction for depreciation
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 (35) Includes 1946-1949-50 year-rounding deduction for depreciation
 (36) Includes 1946-1949-50 year-rounding deduction for depreciation
 (37) Includes 1946-1949-50 year-rounding deduction for depreciation
 (38) Includes 1946-1949-5

Section 13AUDIT OF COMMISSION'S ACCOUNTS

Our report entitled "Examination of Auditor's Reports for period 1916-1921 inclusive" deals exhaustively with this subject, and we direct particular attention thereto, as therein will be found a concise summary of outstanding features of the Commission's administration which have been brought out in the Annual Reports of the Auditor. We here confine our comments to the circumstances surrounding the appointment of a Special Auditor.

The intention of the Legislature, as expressed in the Act of 1906, was that the operations of the Commission should be carried on in a manner similar to that of a Government Department. All moneys received were directed to be paid into the Consolidated Revenue Fund of the Province, and the accounts of the Commission were subject to audit by the Provincial Auditor. No sums appear to have been paid by the Commission to the Province prior to 1916. The reports of the Provincial Auditor prior to 1916 contain references to the accounts of the Commission, but he does not appear to have ever made an audit of them. The correspondence between the Provincial Auditor and the Chairman of the Commission discloses great divergence of opinion and want of harmony between the two officials. In his report for the fiscal year, 1916, the Provincial Auditor characterizes the attitude of the Commission as one of "defiant disobedience" to the law and states that information required

Section 13

THE COMMISSION'S REPORT

The report of the Commission of Inquiry into the
operation of the Commission's administration which
has been submitted to the Council of the Commission
is a valuable contribution to the knowledge of the
Commission's administration. It is a report of a
Special Committee.

The Commission of Inquiry, as requested by the Council
in 1931, was that the Commission should be asked to
investigate the operation of the Commission's
administration. All reports received by
the Commission should be sent to the Council, and
the Commission should be asked to report to the Council
on the operation of the Commission's administration.
The Commission of Inquiry, as requested by the Council
in 1931, was that the Commission should be asked to
investigate the operation of the Commission's
administration. All reports received by
the Commission should be sent to the Council, and
the Commission should be asked to report to the Council
on the operation of the Commission's administration.
The Commission of Inquiry, as requested by the Council
in 1931, was that the Commission should be asked to
investigate the operation of the Commission's
administration. All reports received by
the Commission should be sent to the Council, and
the Commission should be asked to report to the Council
on the operation of the Commission's administration.

by him has been withheld and it was found impossible to complete any audit or make any progress towards completeness. He further states that:

"The Annual Statements rendered by the Commission to the Honourable the Provincial Treasurer for the years 1909 to 1915 inclusive, afford no actual accounting information and fail to disclose the existence of a large and rapidly increasing unauthorized expenditure in the years 1911 to 1915."

Honourable Mr. McGarry, then Provincial Treasurer, apparently held the opinion that there should be Provincial control over the expenditures of the Commission for he proposed the appointment by the Government of a Comptroller who would countersign all cheques of the Commission. This proposal assumed form in amendment to The Power Commission Act passed at the Session of 1916, which authorized the Lieutenant-Governor in Council to appoint a Comptroller. Effect was not given to this amendment to the Act, and at the Session of 1917, the suggested control over expenditures through the medium of an officer appointed by the Government and independent of the Commission was nullified by a further amendment to the Act passed in 1917, under which the Commission itself was authorized, with the approval of the Lieutenant-Governor in Council, to appoint a Comptroller. No such appointment has been made by the Commission.

In May, 1916, Mr. G. T. Clarkson, of the firm of Messrs. Clarkson, Gordon & Dilworth, Accountants, was directed to make an audit of the accounts of the Commission. His appointment as Auditor on behalf of the Government has been continued and Annual Reports have been furnished by him since 1918. Mr. Clarkson began his audit in July, 1916, and his draft report was completed in

February, 1918, and covered the entire period from the appointment of the Commission in 1906 to October 31st, 1916.

In the report of the Commission for the year ending October 31st, 1919, it is stated that Mr. Clarkson's report for the period from 1906 to 1916 was duly presented to the Treasurer of Ontario. This statement is misleading. The report of Mr. Clarkson covering the period mentioned was drafted and in February, 1918, discussed with the Provincial Treasurer, but was never formally presented and never published. In explanation of the circumstances surrounding this draft report, we were informed by Mr. Clarkson that the report was a series of criticisms of the Commission for overstepping authority in one direction or another and that it was thought best before presenting a report that amendments be made to the Power Commission Act legalizing the actions which had been taken by the Commission without authority. With the aid of Mr. Clarkson and the concurrence of the Provincial Treasurer, amendments to the Act were drafted. These were passed at the Session of the Legislature of 1918, and later in the year Mr. Clarkson presented his report for the period ending October 31st, 1917. Mr. Clarkson has stated:

"I have a very definite idea in my mind as to the way accounts should be modelled and should be carried down to display the actual progress of the Commission. I put the accounts into that shape and then modelled the legislation to follow it ... In presenting that account to October 31st, (1917) it was completely modelled on the legislation which went through in April 1918 ... That is the position with regard to that 1916 report, which was not reported until 1918, because it was thought desirable to bring it into line with that legislation ... In other words we moulded the accounts to the shape they ought to take."

See P 55

February, 1951, and covered the entire period from the inception of the

Committee in 1933 to October 1951.

In the report of the Committee for the year ending October 1951,

1951, it is stated that the Committee's report for the period from 1933 to

1951 was duly presented to the Committee on February 1, 1952. This statement is also

included. The report of the Committee covering the period mentioned was directed

and is hereby, 1951, directed with the Committee's Committee, and was duly

formally presented and duly published. In explanation of the circumstances

surrounding this brief report, we were informed by Mr. Olson that the

report was a result of a decision of the Committee for continuing matters

in the Committee on Un-American Activities. It was thought best before presenting a

report that the Committee be made of the Committee and be published in

the report which has been taken up by the Committee on Un-American Activities. With the

all of the Committee and the Committee of the Committee on Un-American Activities, we

were to the Committee. These were taken to the Committee of the

Committee on Un-American Activities, and later in the year Mr. Olson presented his report

for the Committee on Un-American Activities, 1951. Mr. Olson and others

"I have a very definite idea as to what we do in the way
of work. We are not a committee and should be called a group. It
is the only way to get the best of the Committee. I am the
only one who has been in the Committee and have been in the Committee
for a long time. It is in the Committee that account to October
1951, (1951) it was completely revised on the Committee
which was revised in April 1951. That is the position
which report to the Committee, which was not reported until
1951, because it was completely revised in April 1951. It is
also that Committee. In other words we should be
called a group and not a committee."

THIS WAS CERTAINLY A MOST EFFECTIVE, IF UNUSUAL, COURSE OF ACTION. The accounts not conforming with the Statutes, the Statutes were made to conform with the accounts. "The overstepping of authorities in one direction or another", criticized by Mr. Clarkson was apparently not brought to the attention of the Legislature or the public. Mr. Clarkson has furnished us with a copy of his draft report upon accounts of the Commission to 1916 and we find that it exhibits a condition of affairs vastly different from that indicated in the first published report. A perusal of this and other reports of Mr. Clarkson, including the last one published, shows conclusively that the Commission has continually disregarded statutory restraints and has apparently deemed itself even free from the obligations to employ funds entrusted to it for specific purposes for those purposes alone. Breaches of Statutes and unauthorized courses of action have so frequently been condoned and ratified by subsequent legislation, and the law has been so often changed to validate the wrongful act or to declare that no fault has been committed, that these wrongful practices on the part of the Commission became habitual.

PART V - POWER AT COSTSection 14DEFINITION OF TERM "POWER AT COST"

It is provided in Section 23 of The Power Commission Act that in addition to the price per horse-power payable by any municipal corporation under the terms of a contract entered into with the Commission, which shall be the cost of the power to the Commission at the point of development or of its delivery to the Commission, the corporation shall annually pay to the Commission its proportion as adjusted by the Commission of:

- (a) Interest at four per cent. per annum upon capital expenditure and working capital.
- (b) Annual sums sufficient with interest at four per cent. to form in thirty years a sinking fund for the repayment of advances made by Ontario for payment of the cost of the works, and
- (c) Other charges, including line loss, cost of operating, supervising, maintaining, repairing, renewing and insuring the works, remuneration of members of the Commission, appropriations for establishment and support of any fund for superannuation and retiring allowances and sick benefits, to permanent employees of the Commission and such sum as the Lieutenant-Governor in Council may direct to cover the difference between the four per cent. charged on money expended on capital account, advances for working capital and all charges and expenses of providing such money.

"Power at cost", accordingly, may be defined to be power at such a price per horse-power per annum as represents the cost of such power to the Commission at the point of development or delivery, plus

ARTICLE IV - GENERAL

SECTION 1

POWER OF THE COMMISSION

It is provided in section 21 of the Power Commission Act that it shall be the duty of the Commission to acquire, construct, maintain, operate and manage such works and equipment as may be required for the production, transmission and distribution of electric power, and to sell the same to the public at such rates as may be determined by the Commission, subject to the approval of the Board of Directors of the State.

- (a) The Commission may acquire, construct, maintain, operate and manage such works and equipment as may be required for the production, transmission and distribution of electric power, and to sell the same to the public at such rates as may be determined by the Commission, subject to the approval of the Board of Directors of the State.

- (b) The Commission may acquire, construct, maintain, operate and manage such works and equipment as may be required for the production, transmission and distribution of electric power, and to sell the same to the public at such rates as may be determined by the Commission, subject to the approval of the Board of Directors of the State.

"Power is great", proverbially, and it is well to have

at such a time for the power of the Commission to be able to provide power to the Commission at the point of development or delivery, plus

annual payments, apportioned and adjusted by the Commission, of the customer's proportion of fixed and other charges required to be paid by Section 23 of The Power Commission Act.

The policy of the Legislature as expressed in The Power Commission Act when originally enacted and throughout its development and various amendments, appears clearly to have been to provide to each contracting municipal corporation power at a cost comprising the same elements. The cost is determined and fixed in the same way in the case of all groups of contracting municipal corporations.

It is quite evident that conditions prevailing in respect of works from which power is supplied to the different groups of municipal corporations or "Systems", as defined by the Act must differ, so that "cost" cannot be the same to each. Thus the several corporations comprising one "System" may be required to pay an annual price per horse-power for power greatly in excess of or less than that payable by those in another system.

An ideal situation, if practicable, would be created, if "cost" of power were the same in all parts of the Province, so that a publicly-owned and operated public utility would be available to each and every municipality of the Province on precisely the same basis, and industrial progress in one locality not handicapped by higher rates for power than prevail in others. It is contended by some that the water-power resources of the Province, the common heritage of all the inhabitants thereof, should be administered in such a way that all would equally benefit, and that power

understand, interpreted and adjusted by the Commission, of the
 system's properties of kind and other changes required to be made by
 action of the Water Commission.

The policy of the Commission as expressed in the report
 Commission and other officials engaged in the development and
 various technical systems directly or indirectly in each case
 involving individual properties must be a very complicated and
 the case is complicated and clear in the same way in the case of all groups
 of connected individual properties.

It is quite evident that conditions prevailing in respect of
 water and electric power is required in the various groups of connected pro-
 perties or "systems," as defined by the law and subject to that "water"
 cannot be the same in each. The law requires individual properties and
 "systems" may be required to pay an annual price for water and electric power
 property is common to or less than that payable by those in another system.

An ideal situation if practicable, would be created, if
 "water" of power were the same in all parts of the system, so that a fair
 single-owned and operated facility would be available to each and every
 municipality of the Province as possibly the same water, and electricity
 property is not ideally not homogeneous by nature with the power and water
 well in others. It is intended by some that the water-power resources of
 the Province, the common interest of all the municipalities thereof, should be
 administered in such a way that all would equally benefit, and that power

produced therefrom should be distributed to all parts of the Province "at cost", such cost being arrived at by combining all the several undertakings, now conducted in reality as distinct and separate businesses although under the same administration, into one general business or undertaking in which all works, resources and revenues would be pooled and each contracting municipal corporation receive power at the same price. There are many practical difficulties in the way of adopting such a system and there are wide differences of opinion upon it among the public generally and among ourselves. Later in the report we state some of the views pro and con which have been submitted to us.

COPY
The question as to whether discrimination and unfairness do now exist in respect of fixed charges especially when the total cost of power in the several systems is compared, will hereinafter be discussed. Variations in total costs is illustrated by the following table of average cost per horsepower for the year ending October 31st, 1922, to nine "Systems":

Niagara	26.37	St. Lawrence	41.32
Severn	30.27	Rideau	36.20
Eugenia	42.16	# Thunder Bay	25.00
Wasdell's	44.20	Ottawa	14.00
Muskoka	22.09		

- Flat rate charged, only about \$20.00 being paid.

That the same basis and methods are not employed in arriving at cost in all cases is indicated in our report, "History and General Relations" and in a measure in the succeeding sections of this report, which deal with "Interest Charges", "Sinking Funds", "Renewal Rates", "Contingencies", and other overhead charges.

Section 15INTEREST CHARGES

A detailed discussion of the subject of interest charges and the effect of amendments made to The Power Commission Act relating to interest payable by the Commission to the Province and by municipal corporations to the Commission are to be found in our report, "Cost of Money Advanced to the Hydro-Electric Power Commission by the Province of Ontario". That report also shows the effect of the cost of money, forming as it does the most important regulating factor upon the cost of power.

The increased cost of money as shown by the enhanced rate of interest payable by borrowers since 1914, naturally changed conditions respecting Provincial advances to the Commission, demands for which became more insistent and for increasing amounts. The original Power Commission Act was based on the assumption that an annual rate of four per cent. was adequate to recoup the Province the cost of money advanced by it to the Commission. For determining the cost of power payable by municipal corporations, interest charges on capital expenditures for works were fixed by the Act at four per cent. per annum. In 1915 the Legislature provided by amendment to the Act that municipal corporations should pay to the Commission in addition to four per cent., the difference between that rate and the actual cost of providing the money required for payment of the cost of works. Prior to that date and until 1918 the amounts collected by the Commission from municipal corporations and others were payable by the Commission to the Province, the latter thus supposedly being re-imbursed the cost to it of money advanced to

Section 16INTEREST PAYABLE

A detailed discussion of the subject of interest charges and the effect of amendments made to the Power Commission Act relating to interest payable by the Commission to the Province and by municipal corporations to the Commission can be found in our report, "Cost of Money Advanced to the Hydro-Electric Power Commission by the Province of Ontario". That report also shows the effect of the cost of money, showing as it does the most important regulating factor upon the cost of power.

The increased cost of money as shown by the minimum rate of interest payable by borrowers is also, naturally, an important consideration respecting financial advances to the Commission, because the rates which have been insisted upon for borrowed money. The original Power Commission Act was based on the assumption that an annual rate of four per cent. was adequate to repay the Province the cost of money advanced by it to the Commission. For determining the cost of power payable by municipal corporations, interest charges on capital expenditures the same were fixed by the Act at four per cent. per annum. In 1915 the Legislature provided by amendment to the Act that municipal corporations should pay to the Commission in addition to four per cent., the difference between that rate and the actual cost of providing the money required for payment of the cost of money. Prior to that date and until 1915 the interest collected by the Commission from municipal corporations and others was payable by the Province to the Province, the latter thus expensively being re-imposed the cost to it of money advanced to

the Commission for capital expenditures. Under the amendment of 1915 the difference between four per cent. and the actual cost of money payable by municipal corporations was required to be determined by the Lieutenant-Governor in Council, but it was not until 1917 that an Order-in-Council was passed so determining this difference and then only for the then current fiscal year. In 1918, a radical change was made in the relationship between the Province and the Commission by further amendment to the Act under which the Commission was required to pay to the Province annually the cost of money to the Province as fixed by the Lieutenant-Governor in Council. It was presumably, but not expressly, provided that an Order-in-Council fixing the amount should be passed each year. The policy of the Act in respect of the payment of interest by municipal corporations to the Commission and by the Commission to the Province has never been strictly complied with since the amendments mentioned were enacted. When a fixed rate of four per cent. prevailed, the Province simply billed the Commission with interest at that rate upon advances, and the Commission included in the power bills rendered to municipal corporations an item representing their proportion of interest at the same rate upon capital expenditures made upon the works serving them. So long as the cost of money to the Province, and, therefore, to the Commission, did not exceed four per cent. per annum, each was fully re-imbursed its payments on account of interest. The same method of billing for interest was, however, continued after the amendments, and accounts were rendered by

the Commission for capital expenditures. Under the agreement of 1913 the
 difference between the two bills, and the actual cost of money payable
 by municipal corporations was reported to be determined by the Commission
 Government in Canada, but it was not until 1913 that the Ontario-Quebec
 passed an agreement which determined the difference and thus set the time beyond
 doubt. In 1913, a national agreement was made in the relationship between
 the Province and the Commission by further amendments to the act which were
 the Commission was required to pay to the Province annually the sum of
 money to the Province as fixed by the Commission-Government in Canada. It
 was previously, but not explicitly, provided that an Ontario-Quebec
 the amount should be paid each year. The policy of the act in respect of
 the payment of interest by municipal corporations to the Commission and by the
 Commission to the Province has never been explicitly amended since the
 amendments mentioned were made. When a fixed rate of four per cent
 prevailed, the Province always billed the Commission with interest at that
 rate upon advances, and the Commission included in the power bills rendered
 to municipal corporations an item representing their proceeds of interest
 at the same rate upon capital expenditures made with the money advanced from
 the loan as the cost of money to the Province, and, therefore, to the Commission,
 did not exceed that per cent. Now, however, each bill is inclusive of the
 money as amount of interest. The new method of billing for interest was,
 however, continued after the amendments, and accounts were rendered by

the Province to the Commission and by the Commission to municipal corporations at rates not determined in accordance with the Act but at such rates as were considered by the Department of the Provincial Treasurer to be the average cost of money to the Province during the year. We were informed that in arriving at the rate to be charged an official of the Treasury Department, after making his calculations, discussed the matter with a representative of the Commission. In the result, as shown in our report previously mentioned, the cost to the Province of moneys advanced for purposes of the Commission, and consequently the amount properly receivable by the Commission from municipal corporations, has exceeded the amount received by the Province for interest by a sum of from \$259,463.40 to \$643,271.46 according to the basis of calculation adopted. The desirability of a strict compliance with the Act, and the further desirability that the rate of interest to be paid each year by the Commission to the Province, and, therefore, by municipal corporations to the Commission, should be checked and approved by the Government Auditor of the Commission's accounts, is self-evident.

As between "Systems", the only case of discrimination by the Commission in interest rates charged by it as part of the cost of power was that mentioned in previous reports namely that for the period from 1918 to 1921, during which the prevailing interest rate was over six per cent. per annum, the Commission computed interest on expenditures in connection with the Nipigon Development for the Thunder Bay System at the rate of five per

cent., and proposed paying the same rate to the Province in respect of its advances therefor. This meant a loss to the Province and gain to the System of over \$71,000.00. The action of the Commission was not endorsed by the Government, and the Commission recently has charged on its books against the System an amount for interest which places it on a parity with other systems. The attention of Your Honour was drawn in our "Interim Report, Thunder Bay System" to the further fact that although the municipal corporation of Port Arthur has been so charged with interest as part of the cost of power payable by it, the corporation has continuously refused to pay for its power "at cost", and up to October 31st, 1923, the expenses in connection with supplying power to said municipality exceeded revenues received by more than \$500,000 and interest remained unpaid to the Province in connection with its advances for this undertaking by an amount exceeding \$565,000.

The works which supply power to some of the systems were constructed and the advances for the cost thereof made by the Province, prior to October 31st, 1914. As under the Act interest on such advances is computed at the rate of four per cent., while interest on advances made since that date is computed at rates greater than four per cent. and since interest charges form, as they do, a large factor in determining the total "Cost of Power", it is clear that "power at cost" means power at a lower cost, when supplied from works constructed prior to 1914 than from works constructed since 1914.

and proposed paying the same rate as the Province in respect of the
advance transfer. This meant a loss to the Province and gain to the system
of over \$71,000.00. The action of the Commission was not endorsed by the
Government, and the Commission recently has changed on its basis against the
system an amount for interest which places it on a parity with other systems.
The attention of the House was drawn to the "Electricity" Committee report, December 1914,
in which it was stated that although the municipal corporation at 1914
interest has been so charged with interest as part of the cost of power payable
by it, the corporation has continuously refused to pay for the power for
1914, and up to October 1914, the expense in connection with supplying
power to said municipality exceeded revenues received by more than \$200,000
and interest remained unpaid for the Province in connection with the advance
the total outstanding by an amount exceeding \$400,000.

The works which supply power to some of the systems were con-
sidered and the advance for the cost thereof made by the Province, prior to
October 1914, in which the net interest on such advance is computed
at the rate of four per cent, while interest on advances made since that date
is computed at rates greater than four per cent, and since interest charges
form, as they do, a large factor in determining the total "Cost of Power", it
is clear that "Power in fact" means power at a lower cost, when supplied from
works constructed prior to 1914 than from works constructed since 1914.

The figures showing the cost of power at the various systems are as follows:

The amount payable annually by municipal corporations on interest account being the chief factor in determining the annual cost of power, the importance of avoiding extravagant capital expenditures upon works upon which interest is payable annually will also be recognized. Further comment on the subject of fixed charges as part of the cost of power will be found in succeeding sections hereof.

Section 16

SINKING FUNDS

In the administration of the affairs of the Commission, the establishment of sinking funds for the repayment of Provincial advances and retirement of other obligations assumed by the Commission and the Province in connection with the construction and acquisition of works is of prime importance. The subject has received attention in our reports already submitted to Your Honour and the salient features are here summarized and attention drawn to existing anomalies arising from the interpretation placed upon Statutory Provisions. The Legislature evidently had two objects when making provision in The Power Commission Act for the accumulation of a fund in respect of each of the undertakings operated by the Commission which, in a defined period, would be equal to the total capital cost of the undertaking. In the first place, the Province as the banker supplying the moneys for capital expenditures, in addition to receiving interest upon its advances, was to be repaid these; or there were to be deposited with the Treasurer, Provincial securities par-

The amount payable annually by municipal corporations as interest on the bonds being the chief factor in determining the annual cost of power, the importance of avoiding excessive capital expenditures upon works upon which interest is payable annually will also be recognized. Interest on the subject of bond charges as part of the cost of power will be found in accompanying sections hereto.

Section 11

LIMITS

In the administration of the affairs of the Commission, the establishment of standing funds for the payment of financial expenses and settlement of other obligations of the Commission and the Province in connection with the investigation and acquisition of works is as follows: The subject has received attention in our reports already submitted to the Council and the subject continues to be considered and attention given to existing conditions arising from the investigation placed upon the Province. The Legislature evidently had two objects when making provision in the Power Commission Act for the Commission at a time in respect of each of the advantages created by the Commission which is a defined period, would be equal to the total capital cost of the undertaking. On the first place, the Province as the borrower applying the money for capital expenditures in relation to receiving interest upon the advance, was to be repaid in whole or there were to be deposited with the Government, Provincial authorities have

chased by the Commission with sums paid by municipal corporations and others, these securities to be held by the Province as security for its advances made and obligations assumed. In the second place, the repayment of the advances of the Province and release of obligations assumed by it were intended to divest the Province of a proprietary interest in the works and properties held by the Commission and the beneficial ownership thereof was to revert to municipal corporations in proportion to the amounts, with accumulations, paid by them on sinking fund account.

Only in respect of advances by the Province for the cost of works serving municipal corporations under contract with the Commission, do the Statutes relating to the supply of electrical power or energy make definite provision as to the basis upon which sinking fund payments shall be made. The Power Commission Act, however, does definitely provide that all sums received by the Commission from municipal corporations and others shall be invested in Provincial securities and these delivered to the Treasurer of the Province. Sinking fund accounts have been opened by the Commission in respect of undertakings, the cost of which has been met otherwise than by the employment of advances by the Province, and the amounts credited to these accounts are held by the Commission and not treated in the same manner as are the payments received on account of Provincial advances. We are advised that this position of the Commission is unjustifiable, and that these funds should likewise be invested in Provincial securities and delivered to the Provincial Treasurer.

charged by the Commission with such kind of municipal corporations and others, these activities to be held by the Province on security for the advance and obligation assumed. In the second place, the repayment of the advances of the Province and release of liabilities assumed by it were intended to direct the Province to a proprietary interest in the water and hydroelectric rights by the Commission and the beneficial ownership thereof was to revert to municipal corporations in proportion to the amount, with accumulation, paid by them on standing loan account.

Only in respect of advances by the Province for the cost of works serving municipal corporations under contract with the Commission, do the statutes relating to the supply of electrical power to energy users relate to the Province as the basis upon which standing loan payments shall be made. The former Commission act, however, does definitely provide that all sums received by the Commission from municipal corporations and others shall be invested in Provincial securities and these delivered to the Treasurer of the Province. Standing loan accounts have been opened by the Commission in respect of municipalities, the cost of which has been not otherwise than by the repayment of advances by the Province, and the amounts credited to these accounts are held by the Commission and are treated in the same manner as the the payments received on account of Provincial advances. It was stated that this position of the Commission is unsatisfactory, and that these funds should likewise be invested in Provincial securities and delivered to the Provincial Treasurer.

In respect of certain undertakings no sinking funds have been established for the retirement of certain assumed bonded indebtedness and the liability of the Province for this indebtedness will continue for indefinite renewal periods. The policy of The Power Commission Act undoubtedly was that all municipal corporations entering into contracts with the Commission for supplies of "power at cost", would, as part of the "cost" of power, pay annual sums sufficient to form in thirty years a sinking fund for repayment of the advances by the Province in respect of the cost of the works. The same basis for accumulation of sinking funds being applicable to all, municipal corporations are all presumably on an equal footing as to that part of the cost of power attributable to payments on account of sinking funds. Amendments to the Act having undoubtedly for their object the relief of municipal corporations during the first five years in which they make payments for power, and the giving to such municipalities of an opportunity to build up their power loads before being called upon to pay their proportion of sinking funds, have been interpreted and applied by the Commission not only to the deferment of the time for payments on account of sinking fund in the case of all municipal corporations for a period of five years from the date on which payments for power supplied them commence, but also have been held by virtue of the interpretation placed by the Commission upon The Ontario Niagara Development Act, 1917, to apply to the cost of the Queenston-Chippawa Development, which, in effect, is an extension to the works of the Niagara System, and repayment of which cost it is proposed to defer for a period of five years from the time at which the plant was put in operation. This, in our opinion, goes far beyond the clear intention of the Legislature as expressed in the Act.

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The intention of the Legislature in establishing a five-year deferment period was apparently to help those systems, where the demand for power might be light, over the five years following construction so that they might not have to pay what might be prohibitive prices for power during that period. But the Commission has adopted the practice of granting the extension not only where the demand is light but in those systems where the whole of the power generated is disposed of from the beginning, thus, in effect, extending the general sinking fund period from thirty to thirty-five years. The necessity for a uniform clearly-defined procedure in respect of all sinking funds for repayment of moneys expended or obligations assumed for construction or acquisition of power undertakings of the Commission is apparent.

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Special legislation affecting the works of the Thunder Bay System, established a basis different from that relating to other works for accumulation of a sinking fund, the period being forty instead of thirty years. The Commission applied the provision for a five-year deferment in this case also and in effect established a sinking fund for the Thunder Bay System on a forty-five year basis, authority to do which seems doubtful.

The Ontario Niagara Development Acts, under which the Queenston-Chippawa Power Development was constructed, and to which The Power Commission Act, except where specifically made applicable, does not apply, contain

The intention of the Legislature in establishing a five-year
 extension period was apparently to help those systems, where the renewal of
 power might be light, even the five years following completion of the
 term might not have to pay more than the previous period for power.
 But the Commission has adopted the practice of granting
 the extension not only where the term is light but in those cases where
 the whole of the power generated is derived from the extension, that is,
 where, extending the power period from thirty to thirty-five
 years. The necessity for a uniform thirty-five year period is evident in
 all cases where the extension is required or otherwise required
 for extension or acquisition of power under the act of the Commission is

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agreement.

Special legislation extending the term of the power law
 system, established a basic agreement from that relating to other cases for
 extension of a sinking fund, the period being forty years of forty
 years. The Commission applied the provision for a five-year extension in
 this case also and in effect established a sinking fund for the power law
 system as a thirty-five year term, authority to be which power system.

The Ontario Hydro-Electric Commission, under which the Commission
 Ontario Power Development was constituted, and to which the power law
 act, seems more especially applicable, does not apply, unless

provision for payment, as part of the cost of power payable by municipal corporations contracting for power to be supplied from Niagara plants, of sums on account of sinking fund for repayment of the cost of that Development. The original estimates of the Commission of the cost of power generated at the Queenston-Chippawa plant included payments on sinking fund account on a thirty-year accumulation basis. The Commission has since interpreted Section 5 of The Ontario Niagara Development Act, 1917, as authorizing it to establish a sinking fund in respect of the works constructed or acquired pursuant to the Act on such basis as it may deem necessary and proper, and in estimates submitted to us has adopted the basis of payments on account of sinking fund extending over a period of forty years, commencing after five years from the date of expenditures.

The adoption of diverse bases for the establishment and accumulation of sinking funds has resulted not only in causing inequalities and discrimination in annual power rates payable by municipal corporations, but it has also extended the time originally contemplated within which the Province will be repaid its advances and relieved of its obligations and municipal corporations acquire a full proprietary interest or ownership of the works constructed and acquired on their behalf. The extension of sinking fund period in the case of the Queenston-Chippawa Power Development to forty-five years and the procedure adopted in respect of sinking funds for The Ontario Power Company and The Toronto Power Company, has a

After this report from the date of the 1944-1945 season.

The selection of diverse cases for the collection and examination of sinking funds has resulted not only in securing information and classification in respect to sinking funds raised by municipal corporations, but it has also extended the time originally contemplated within which the Province will be required to answer and fulfill its obligations and municipal corporations likewise a full proprietary interest in ownership of the works constructed and repaired on their behalf. The extension of sinking fund period in the case of the Montreal-Shipshaw River Development to forty-five years and the Province agreed in respect of sinking funds for the Ontario Power Company and the Toronto Power Company, has a

very material effect upon the annual cost of power to the corporations in the Niagara System. With the Niagara plants controlled by the Commission operating at full capacity and the full amount of power generated being consumed, the total amount paid annually for power by municipal corporations of the Niagara System will be, it has been calculated by our Accountants, at least \$800,000 less than if sinking fund payments were made on a thirty-year basis. Extensions and improvements doubtless will be made to these plants and the time when the municipalities interested may expect to acquire complete ownership is receding into the dim future. In the meantime the municipal corporations in the Niagara System are not only benefitting by their favoured location in proximity to the greatest water power of the Province, but they are additionally favoured by discrimination in sinking fund rates.

The total amount of the credit of sinking fund accounts on the books of the Commission on October 31st, 1922, was \$2,677,947.09; cash advances and guarantees of the Province and other bonds as of the same date totalled \$150,946,112.59; the proportion the one amount bears to the other represents the relative interest of the municipalities and the Province in the ownership of works controlled and operated by the Commission under the provisions of The Power Commission Act and The Ontario Niagara Development Acts.

The belief has been engendered and kept alive in many minds that municipal corporations will acquire complete ownership of the undertakings of the Commission in thirty years and in the meantime are the real owners subject only to payment of certain indebtedness to the Province. There is no foundation for such belief, but it is refreshed from time to time by utterances of enthusiasts. As recently as December 12th, 1923, a newspaper report quotes Sir Adam Beck as saying:

"Under our present system we have provided for the retirement of the debt on capital investment at the end of thirty years."

By way of example, and having regard to the fact that the capital investment in Niagara plants amounts to over 80% of the total capital investment in all the power undertakings of the Commission, out of a total of \$134,000,000, of which but \$25,233,528, or about 19% is being provided for by a sinking fund on a thirty-year basis, it is clear that the statement just quoted is untrue.

Section 17

RENEWAL RATES

The accumulation of reserves to cover depreciation of properties is deemed expedient and necessary in all well-regulated enterprises, especially where the use of the properties entails considerable depreciation in values. The Commission, having been authorized to establish renewal reserves, and to add the amounts appropriated therefor to the cost of power to

The letter has been answered and says also in many places that the Committee will require evidence of the genuineness of the Committee in which it is the intention to the best interest of the country only as far as the Committee is the country. There is no intention to seek belief, but it is intended that the Committee be the best of evidence. As formerly in December 1913, a committee of evidence.

of the date an original investment of the end of thirty years.

and that cost out of budget arrived here, reference to you.

The statement was dated in 1966.

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municipal corporations, after communicating with the management of large public utilities on the Continent, adopted renewal rates, which, with few exceptions, were continued to October 31st, 1921. These rates were necessarily variable as applied to different classes of property, but were based upon a general policy of expending sufficient to maintain each and every portion of the undertakings in a condition to operate economically. The plan adopted was to maintain the works 75% as good as new. The rates established by the Commission were based on the prospective life of the several component parts of the properties, some of which extend to one hundred years, but did not take into consideration the possibility of obsolescence of plant through development of electrical science. The renewal rates in force at the time of our appointment as Commissioners were the subject of investigation by our Consulting Engineer and he reported thereon to us.

In 1922, moved no doubt by a desire to lower the annual cost of power, which was steadily increasing and occasioning complaints, and to wipe out arrears due by municipalities, the Commission took into consideration the advisability of revising and reducing the renewal rates then in effect. As appears by the Minutes of a meeting of the Commission held on November 22nd, 1922:

"The report of the Chief Engineer re depreciation rate on the Eugenia System was considered, and the matter was deferred in order that the Chief Engineer may place the full facts before Messrs. R. A. Ross and W. J. Francis, so as to get their opinions covering the recommendation made."

municipal corporations, after consultation with the Commission of Inquiry, the Commission on the Commission, advised several cases, which, with the exception, were contained in former Bill, 1911. These cases were not necessarily suitable as applied to different classes of property, but were based upon a general policy of expanding activities in various cases and every portion of the subject-matter in a condition to operate economically. The plan adopted was to maintain the water rate as good as new. The rates established by the Commission were based on the present value of the several component parts of the properties, some of which extend to one hundred years, but did not take into consideration the possibility of obsolescence of plants through developments of electrical systems. The removal rates in force at the time of the appointment of the Commission were the subject of investigation by the Commission and the rates were referred to it.

In 1911, there was a change in the rate to lower the annual rate of power, which was steadily increasing and increasing complaints, and to wipe out arrears due by municipalities, the Commission took into consideration the advisability of providing and reducing the removal rates in effect. As reported by the Director of the Commission in the report of the Commission, 1911.

"The report of the Chief Engineer to the Commission was on the basis of the report of the Chief Engineer, and the water was delivered in order that the Chief Engineer may place the full facts before the Commission, and the Commission, so as to get their opinion regarding the recommended rates."

Mr. R. A. Ross is one of our number and Mr. W. J. Francis is our Consulting Engineer.

On December 20th, 1922, the subject again came before the Commission as appears by the Minutes of a meeting of that date, from which we quote:

"The Chief Engineer having recommended a revised depreciation rate, calculated on the basis of the life of the equipment, also having advised that this matter had been taken up with Mr. Francis, and approved, it was decided that the depreciation rate for the Eugenia System should be fixed at 1.25%, and that this rate be made retroactive to date of first operation."

Other minutes referring to the approval of Mr. Francis were passed in reference to a reduction in renewal rates for other systems.

It would of course have been manifestly improper for the Commission to approach our Engineer for an opinion in this matter, and Mr. Francis informs us that the alleged statement of the Chief Engineer "that this matter had been taken up with Mr. Francis and approved" was wholly unwarranted. The statement subsequently made that the depreciation rate was changed on the recommendation or approval of Mr. Francis, was, of course, also baseless.

We consider the revision of depreciation rates, made retroactive in many cases to the date of first operation and consequent reduction of amounts standing to the credit of renewal reserves, was an unwise pro-

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Mr. H. A. ... is one of my number and Mr. ... is

my consulting engineer.

On December 20th, 1922, the subject again came before the

Commission as reported by the Minutes of a meeting of that date, from which

no notes

The Chief Engineer having recommended a revised legislation
was, submitted on the basis of the facts of the situation,
also having advised that this matter had been taken up with
Mr. ... and suggested, it was decided that the legislation
was for the purpose of ... and that
this case be held pending the ... of this legislation.

Other minutes referring to the approval of Mr. ... were

listed in reference to a ... rates for other systems.

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It would of course have been ... for the

Commission to approve our Engineer has an opinion in this matter, and Mr.

Francis informs us that an alleged statement of the Chief Engineer "that

this matter had been taken up with Mr. ... and approved" was wholly

untrue. The statement allegedly made that the legislation was

was changed to the recommendation of approval of Mr. ... was, of course,

also false.

He considers the violation of legislation rates, which ratio-

lative is ... in the case of first operation and subsequent ...

of amounts ... to the credit of ... reserves, was an unwise pro-

ceeding on the part of the Commission and more especially on account of the disposition made of these reserves. The net results effected by the decision of the Commission on December 20th, 1922, appears from the following table:

System	Balance October 31st, 1921, before Adjustment	Amount taken from the re- serve upon the reduction of the renewal rates	Balance October 31st, 1921, after Adjustment	Increase in Reserve during 1922, through charges in power costs, interest accretions, etc.	Balance October 31st, 1922.
Niagara	\$2,228,722.27	-	\$2,228,722.27	\$246,698.75	\$2,475,421.02
Severn	227,347.21	\$119,976.30	107,370.91	25,372.81	132,743.72
Eugenia	181,830.21	68,106.98	113,723.23	23,477.46	137,200.69
Wadell's	38,973.73	10,578.06	28,395.67	7,168.45	35,564.12
Muskoka	25,471.39	13,398.99	12,072.40	3,142.77	15,215.17
St. Lawrence	76,369.49	25,398.57	50,970.92	13,772.86	64,743.78
Rideau	38,365.47	16,242.07	22,123.40	11,647.60	33,771.00
Thunder Bay	41,302.22	-	41,302.22	1,131.29#	42,433.51
Ottawa	-	-	-	434.59	434.59
	\$2,858,381.99	\$253,700.97	\$2,604,681.02	\$332,846.58	\$2,937,527.60

- Represents interest accretions for 1922.

No provision was made for renewals out
of revenue for 1922.

In addition to the amount (\$253,700.97) shown in the foregoing table as having been transferred from the renewal reserves, there was, as we have shown in our report upon The Ontario Power Company, a reduction made in renewal reserves of that undertaking of the Commission of \$379,289.19 as at October 31st, 1922.

Of the amount, \$253,700.97, above mentioned, the sum of \$216,832.05 was credited to municipal corporations interested, \$36,236.37 to contingency reserves and \$632.55 to Rideau Power Development. The transfer of \$216,832.05 to the credit of municipal corporations reduced the average annual costs of power to them from the date of first operation, and brought these annual costs more nearly to a parity with the estimated costs furnished to the corporations. The amounts credited to them, however, were not paid over to the municipal corporations at once, but were employed to cancel debits on power accounts or retained for the purpose of meeting future accounts. The Commission was thus enabled to employ a large portion of the amounts to the credit of municipal corporations for its general purposes at a cost to it of four per cent. per annum for interest thereon.

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In the case of The Ontario Power Company, the renewal reserve, which our Consulting Engineer had reported to be inadequate before the reduction, was further reduced, and the Commission enabled to determine as the "cost of power" produced by that company a figure less than would otherwise have been necessary. In the reduction of depreciation rates, as in other courses taken by the Commission, present apparent advantages to consumers of power appear to over-ride considerations of the future and evidence a wide disregard of the interests of the Province as a whole. The building up of adequate renewal reserves, while at the same time the works of the Commission are maintained at the standard condition of efficiency, provides not only a fund which assures municipal corporations that the works towards the

cost of which they are contributing, will be in an efficient operating condition, but also provides additional security to the Province for the advances made by it to meet the cost of the works. It is but natural to expect that a consideration of the interests of the Province as a whole would lead the Commission to confer with and obtain the approval of the Government before adopting a policy reversing one deliberately adopted and consistently followed for years. This it did not do.

After consideration of the reports of our Consulting Engineer upon the works of the several systems, and a full investigation, we find that, while, subject to the approval of the Lieutenant-Governor in Council, a reduction of depreciation rates relating to some of the works of the Commission from those originally prevailing would be justifiable, a reduction ranging from 25% to 55% in respect of nearly all the undertakings of the Commission was wrong and unsound. The prospective reduction of the renewal fund apparently paved the way for the commendation of the Commission in the public press. The following paragraph, appearing in the press under date of September 14th, 1923, is a sample:

"A reduction of rates which affects three cities, thirty-five towns, seventy villages and one township, was formally announced yesterday afternoon at the offices of the Hydro-Electric Commission."

cost of which they are contributing, will be in an efficient operating condition, but also provide additional security to the Province for the advanced work up to the year of the work. It is not intended to expect that a consideration of the interests of the Province as a whole would lead the Commission to enter into the approval of the Government before adopting a policy involving any substantial change and considerably reduced the cost. This it did not do.

After consideration of the reports of our Consulting Engineer upon the work of the several systems, and a full investigation, we find that, while, subject to the approval of the Minister-Governor in Council, a reduction of expenditures was necessary to some of the works of the Commission from those originally provided for as feasible, a reduction ranging from 10% to 25% in respect of nearly all the undertakings of the Commission was found to be necessary. The prospective reduction of the several funds apparently gave the way for the consideration of the Commission in the public press. The following paragraph, appearing in the press under date of September 14th, 1937, is a sample:

"A reduction of rates which affects three cities, thirty-five towns, several villages and one township, was formally announced yesterday afternoon at the office of the Hydro-Electric Commission."

We attach hereto as Appendix "C", Schedule "A" and Schedule "B" of renewal rates now used by the Commission for its various properties, giving the following information:

- (a) Class of Property.
- (b) Years Life.
- (c) Residual Values.
- (d) Depreciation rate on straight line basis.
- (e) Depreciation rate on sinking fund basis.

There is also attached with these schedules a memorandum by the Chief Engineer of the Commission, setting forth reasons for the adoption of the rates included in the schedules.

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Section 18

RESERVE FOR CONTINGENCIES

The following table shows the balance in the reserve for contingencies at October 31st, 1922, for each of the Hydro Systems under the direction of the Commission, together with the remarks of our Consulting Engineer relative to the adequacy thereof, made by him in respect of the balances at October 31st, 1921, which were, of course, less than on October 31st, 1922, the figures of which are shown on the table:

We attach hereto as Appendix "B", Schedule "A" and Schedule "C" of General Order No. 10, the Commission for the various purposes, giving the following information:

- (a) Class of Property.
- (b) Years life.
- (c) Estimated value.
- (d) Depreciation rate on original cost.
- (e) Depreciation rate on sinking fund.

There is also attached with these schedules a memorandum by the Chief Engineer of the Commission, setting forth reasons for the adoption of the rates included in the schedules.

COPY
SCHEDULE 12

ATTACHMENT FOR SCHEDULE 12

The following table shows the balance in the reserve for depreciation at October 31st, 1924, for each of the three systems under the direction of the Commission, together with the amount of net income for the year relative to the company's assets, made by the in respect of the balance at October 31st, 1924, which were, of course, less than the October 31st, 1924, the figures of which are shown in the table:

System	Balance, October 31, 1922	Comments of Consulting Engineer in respect of Balances as at October 31, 1921
Niagara System	\$ 4,853.87	Consideration should be given to a larger provision for a contingency reserve.
Severn System	29,220.08	Reserve should be increased to \$20,000 or \$30,000.
Eugenia System	12,801.38	Reserve should be increased to \$25,000 or \$30,000.
Wasdell's System	6,068.13	Reserve should be increased to \$5,000 or \$10,000.
Muskoka System	3,375.57	Reserve should be increased to \$5,000 or \$10,000.
St. Lawrence System	6,255.17	Reserve should be increased to \$12,000 or \$15,000.
Rideau System	7,673.25	Reserve should be increased to \$15,000 or \$20,000.
* Thunder Bay System	4,601.65	No comments.
Ottawa System	None	Reserve of about \$5,000 should be established to provide for losses which might be incurred through the operation of rural lines.
Essex System	None	Reserve should be built up of \$8,000 or \$10,000.
Thorold System	None	It would seem to be a good policy to establish a reserve for contingencies.

* - Not in full operation.

[illegible]

It will be noted from this table that the balances in the reserve for contingencies, although increased in 1922, are still in all but two instances below the requirements considered adequate by our Consulting Engineer.

Special attention is directed to the balance of \$4,853.87 on the Niagara System. This reserve is entirely inadequate and should be built up to an amount of approximately \$500,000. During the year 1922 the charges made against the reserve for contingencies for the Niagara System were \$242,707.74 and the additions to the reserve through charges included in the cost of power and interest accretions amounted to \$222,696.60. The charges thus exceeded the credits in this year by more than \$20,000.

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In the preceding section of this report attention has been directed to the reduction in the reserve for renewals to rates which provide only for the renewal of the property and do not provide for obsolescence of plant through development of electrical science. This might well have been provided for when determining the amount to be appropriated to reserve for contingencies. With contingency reserves standing at figures much lower than they should be, a prudent and natural course of procedure would have been to transfer the amounts or major part thereof available through justifiable reduction of renewal reserves to the reserves for contingencies. On referring back to our discussion of renewal reserve it will

It will be noted from this table that the balance in the reserve for contingencies, although increased in 1911, was still in all but two instances below the requirements considered adequate by our Consulting Engineer.

Special attention is directed to the balance of \$4,141.32 on the Niagara system. This reserve is entirely inadequate and should be built up to an amount of approximately \$100,000. During the year 1911 the charges made against the reserve for contingencies for the Niagara system were \$11,77.74 and the additions to the reserve through charges included in the cost of power and interest accretions amounted to \$221,284.60. The charges thus exceeded the credits in this year by more than 120,000.

COPY

In the preceding section of this report attention has been

directed to the reduction in the reserve for contingencies to raise which provisions only for the removal of the property and do not provide for replacement of plant through development of electrical systems. This plan will have been provided for when determining the amount to be appropriated to the reserve for contingencies. With contingencies reserves standing as figures much lower than they should be, a provision and natural source of provision would have been to transfer the amounts to other plant reserve available through justifiable reduction of reserve reserves to the reserves for contingencies. On referring back to our discussion of reserve reserves it will

be found that out of a reduction of nearly \$254,000.00 only \$36,000.00 was credited to contingencies.

Special attention is directed to the reserve for contingencies in the case of The Ontario Power Company. This amounted to \$527,684.30 at October 31st, 1922, but, with the exception of \$189,924.84, was made up of reserves for accrued liabilities and other assets of a most questionable character. Our Consulting Engineer has pointed out that the contingencies reserve for The Ontario Power Company is entirely inadequate and, while it is not anticipated that serious accidents will occur such as the accident of April 20th, 1922, the estimated cost of which is \$300,000, this accident nevertheless furnished a striking proof of the necessity of having reserves for contingencies of such amounts as would provide for extraordinary losses. We are of opinion that this contingency reserve should be very substantially increased.

As noted in our report on the Queenston-Chippawa Power Development, estimates prepared by the engineers of the Commission, and submitted to our Consulting Engineer, setting forth the probable cost of power from this Development, included no amount whatsoever in respect of contingencies. Our Consulting Engineer in dealing with this subject recommends that contingency reserves be provided on this work, and in this we are in complete agreement with him. As pointed out in our discussion of renewal reserves, our Consulting Engineer also considered that the rates applied by the engineers of the Commission in this respect were also inadequate.

be found that out of a reduction of nearly \$250,000 only \$10,000

was needed to cover the same.

Special attention is directed to the reserve for contingencies

in the case of the Ontario Power Company. This amounted to \$250,000

at October 31st, 1931, but with the completion of \$100,000.00, was reduced

of reserves for actual liabilities and other assets of a more permanent

character. Our Consulting Engineer has pointed out that the same

financial reserve for the Ontario Power Company is entirely inadequate and

while it is not anticipated that serious problems will come up as the

result of April 1931, 1932, the estimated cost of which is \$250,000.

This reserve nevertheless furnished a striking proof of the necessity of

having reserves for contingencies of which amounts as would provide for extra

ordinary losses. In case of opinion that this contingency reserve should be

very substantially increased.

As noted in our report on the Ontario Power Company

development, estimates prepared by the engineers of the Commission, and

submitted to our Consulting Engineer, setting forth the probable cost of

power from this development, included no amount whatever in respect of

contingencies. Our Consulting Engineer in dealing with this subject re-

commends that contingency reserves be provided on this work, and in this re-

spect is in complete agreement with him. As pointed out in our discussion of the

new reserves, our Consulting Engineer also mentioned that the rates applied

by the engineers of the Commission in this respect were also inadequate.

We believe that for a 550,000 horse-power plant, an annual amount of between \$400,000 and \$500,000 might well be set aside in respect of contingencies to take care of happenings of a catastrophic nature which, after all, are not altogether improbable occurrences.

Section 19

OTHER CHARGES

As stated when setting forth the charges entering into the cost of power, in addition to interest, sinking fund, renewal reserve and contingencies, the Commission is required to provide for line loss, for the cost of operating, supervising, maintaining and insuring the works, and for such amounts as may be required to provide for the remuneration of the Commissioners and in respect of superannuation, retiring allowances, sick benefit and so forth.

These charges, insofar as we have been able to learn, have all been provided for in accordance with the requirements of the Act with the possible exception of line loss, for which there seems to be no specific provision in the distribution of costs among the municipalities. Line loss is necessarily provided for automatically by the system which the Commission uses in billing the municipalities. The allocation of line loss to the different municipalities may not be in exact accordance with the losses accruing in respect of each, but we are informed by our Consulting Engineer

1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816

CONFIDENTIAL AND IN VIOLATION OF INTELLIGENCE LAWS, 50 USC 3605, 18 USC 793, AND 18 USC 794.

These changes, however as we have been able to learn, have all been provided for in accordance with the requirements of the Act with the possible exception of line loss, for which there would be no specific provision in the distribution of assets among the municipalities. This loss is automatically provided for in the system since the Commission uses in filling the municipalities. The allocation of line loss to the different municipalities may not be in exact accordance with the latter's contribution in respect of such, but we are informed by our Consulting Engineer

that this is a very difficult item to compute with accuracy, and it would appear that the methods now employed by the Commission in this respect, are fairly equitable to all consumers.

The main items coming under this heading include the cost of operation and the cost of maintaining the works. Of these two, maintenance is probably the most important in that it has a definite bearing upon the basis on which the renewal reserve is established. As previously pointed out in our comments on renewal reserves, it is the established policy of the Commission to maintain the works and keep each and every portion of the system in a condition to operate in accordance with the requirements of economical production, which is considered to be about 75% as good as new. As far as we can learn it would appear that the Commission has strictly adhered to this policy, and that all works operated by it are kept up to at least this standard of efficiency. We believe that many of the plants are kept above this standard and on the whole it may be stated that the condition of all plants visited by us has been excellent, and much credit is due the operating department whose duty it is to see that the standard of efficiency is maintained.

that this is a very different thing from the question of cost, and it would appear that the estimate was made by the Commission in 1915, and was fairly equitable to all concerned.

The main thing which makes this estimate inside the cost of operation and the cost of maintaining the works. It shows two, maintenance is probably the most important in that it has a definite bearing upon the basis on which the renewal reserve is established. As previously pointed out in our comments on renewal reserves, it is the established policy of the Commission to maintain the works and keep each and every portion of the system in a condition to operate in accordance with the requirements of economical production, which is considered to be a good as new. As far as we are concerned it would appear that the Commission has already decided to this effect, and that all works existing in its system are to be kept in a condition of efficiency. We believe that some of the plants now kept above this standard and of the whole is kept at a level that the Commission at all plants visited by us has been successful, and keep them in the condition of efficiency which it is to see that the standard of efficiency is maintained.

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Section 20METHOD OF ARRIVING AT COST OF POWER

The various elements entering into the cost of power supplied by the Commission to contracting municipal corporations as set forth in Section 23 of The Power Commission Act have been commented upon in the preceding sections. The duty of adjusting and apportioning these several items of cost amongst the municipal corporations comprising the different "Systems", in order that each may bear its just proportion, is cast by the Act upon the Commission from which there is no appeal. What is termed the "cost" of power in the first part of Section 23 of the Act is the original cost to the Commission at the point of production, or generation. Such cost of power consumed by all municipal corporations, in a system having as a general rule the same source, is without difficulty apportionable amongst the municipal corporations, employing the amount of power supplied to each as a basis. This basis can also be applied to determine the proportions of other elements of "cost" or annual payments to be made in addition to original "cost". The proportions of annual payments to be made by a system on interest and sinking fund account in connection with the cost of transmission lines, transformer stations, and so forth, necessarily vary amongst the municipal corporations in the system, so that although each may pay for its power "at cost", the "cost" must necessarily be greater in some than in others.

The relative importance of the constituent items of the cost of power has been dealt with in our report entitled "Cost of Money Advanced to the

Hydro-Electric Power Commission by the Province of Ontario". In that report will be found tables showing the percentage ratio of the various items entering into the cost of power for the year ending October 31st, 1921, the "Systems" being considered under two headings:

- (a) Systems in which all or the greater portion of the power is supplied by a generating plant, part of the works of the system.
- (b) Systems in which the power is purchased from outside sources.

For convenience of reference these tables are here repeated:

(a) Systems in which Power is Generated

	# Thunder Bay	* Severn	* Wasdell's	* Eugenia	* Muskoka	* Rideau
Power Purchased	6.02	8.9	-	-	-	5.72
Interest	73.13	29.7	34.6	37.90	35.63	53.03
Renewals	-	18.0	15.2	19.05	19.56	21.55
Sinking Fund	-	9.0	13.4	5.65	2.77	-
Maintainance	3.37	11.7	7.9	11.60	10.13	2.82
Operating	11.93	9.5	18.1	7.25	20.38	9.41
Overhead and General Expense	5.55	12.6	10.2	18.02	10.42	6.87
Contingencies	-	0.6	0.6	0.53	1.11	0.60
Surplus	-	-	-	-	-	-
	100%	100%	100%	100%	100%	100%

Note: # - In 1921 Cameron Falls Development in the Thunder Bay System had only two generators in operation and construction work was still under way. No renewals, contingencies or sinking fund charges had been applied in that time. As soon as these charges are applied the effect will be to reduce the ratio that interest

Hydro-Electric Power Commission by the Province of Ontario. In this report will be found tables showing the production of the various plants and also the cost of power for the year ending March 31st, 1917. The figures being considered under two headings:

- (a) Systems in which all or the greater portion of the power is supplied by a generating plant, part of the cost of the system.
- (b) Systems in which the power is obtained from outside sources.

The comparison of systems is made under the same headings:

(a) Systems in which power is generated

Comparison of Systems in which power is generated					
1917	1916	1915	1914	1913	1912
Power generated	1,000	1,000	1,000	1,000	1,000
Interest	10.00	10.00	10.00	10.00	10.00
Depreciation	10.00	10.00	10.00	10.00	10.00
Operating	10.00	10.00	10.00	10.00	10.00
Transport and	10.00	10.00	10.00	10.00	10.00
General expenses	10.00	10.00	10.00	10.00	10.00
Contingencies	10.00	10.00	10.00	10.00	10.00
Reserve	10.00	10.00	10.00	10.00	10.00

Note: 1 - In 1911 Ontario Electric Development in the Province of Ontario had only two generators in operation and construction was well advanced. No comparison is made for 1911 as the figures are not yet available. As soon as these figures are available they will be added to the table.

bears to the whole cost, and the figure of 73% given may then be considerably reduced.

- * - These three systems have an interchange of power and all purchase power from the Orillia plant, but each has its own generating plant as well.

(b) Systems which Purchase Power

	\$ Niagara	St. Lawrence	Thorold	Essex
Power Purchased	55.96	34.9	38.2	33.9
Interest	15.50	23.9	4.2	18.6
Renewals	7.49	15.7	1.1	13.3
Sinking Fund	4.93	7.8	2.3	4.1
Maintenance	3.84	5.3	0.4	13.6
Operating	4.51	2.3	0.8	4.3
Overhead and General Expense	6.90	9.6	-	12.2
Contingencies	0.87	0.5	-	-
Surplus	-	-	53.0	-
	100%	100%	100%	100%

Note: \$ - Niagara System in 1921 did not include the group of generating plants at Niagara and was shown in the books of the Commission as a purchaser of power.

In group (b) the item "Power Purchased" forms a large percentage of the total cost of power. In the Niagara System this amounts to 55.96 per cent., The Ontario Power Company and The Toronto Power Company being considered as entities distinct from the Commission and vendors of power to the Commission. When consideration is given to the fact that these companies are controlled and

have to the whole body, and the power is given
way from the centrally located.

* - These three systems have an interconnection of power and
all power is given from the central plant. The main
has its own generating plant as well.

(2) Summary of the Financial Data

1900				1901	1902	1903	1904	1905
Power purchased	25.75	24.75	24.75	24.75	24.75	24.75	24.75	24.75
Interest	12.75	12.75	12.75	12.75	12.75	12.75	12.75	12.75
Depreciation	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50
Operating expenses	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Maintenance	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
Overhaul and	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
General repairs	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Construction	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Salaries	-	-	-	-	-	-	-	-
1900	1901	1902	1903	1904	1905	1906	1907	1908

Note: * - The power system in 1901 did not include the group of
generating plants at Niagara and was shown in the
scope of the Commission as a purchase of power.

In 1900 (2) the two power systems formed a large percentage

of the total cost of power. In the Niagara system this amount to 12.75 per
cent. The Ontario power company and the Ontario power company being considered
as entities distinct from the Commission and vendors of power to the Commission.
This consideration is given to the fact that these companies are controlled and

operated by the Commission, it becomes apparent that the item of 55.96 per cent., as far as the Commission is concerned, is divisible into the component parts of the cost of power to these companies and that if so divided, the percentages for interest, renewals, sinking fund and so forth would be increased. The relationship of the charges entering into the cost of power from the combined operation of the Queenston-Chippawa Power Development, The Ontario Power Company and The Toronto Power Company is illustrated by the following table:

Estimate of Operating Expenses of The Ontario Power Company,
The Toronto Power Company, including Toronto Steam Plant (not operating),
and The Queenston-Chippawa Power Development

	<u>Total of Four Plants, three operating</u>			
	550,000 H.P.	600,000 H.P.	650,000 H.P.	700,000 H.P.
Interest	74.76%	74.73%	74.78%	69.00%
Operation	6.07	6.06	6.05	5.52
Sinking Fund	5.77 *	5.61*	5.46 *	12.92
Maintenance	3.82	3.85	3.90	3.61
Water Rental	3.29	3.49	3.58	3.28
Depreciation	2.80	2.87	2.95	2.80
Taxes and Insurance	2.41	2.34	2.28	1.98
Bank exchange, bond discount, etc.	1.03	1.00	0.97	0.85
Add charges on No. 16 unit, O.P.Co., -				
interest 6%; sinking fund 1.8%; depreciation 0.38%	0.05	0.05	0.05	0.04

Note: * - Sinking Fund deferred on the Queenston-Chippawa plant

The most important element and the main governing factor in the cost of power is undoubtedly the annual charge for interest on capital investment,

operated by the Commission, it becomes apparent that the item of 25.75 per cent., as far as the Commission is concerned, is divided into the component parts of the cost of power to these companies and that if it is divided, the percentage for interest, renewals, sinking fund and so forth would be increased. The percentage of the charges entering into the cost of power from the combined operation of the Government-Whipps power development, The Ontario Power Company and The Toronto Power Company is illustrated by the following table:

Estimate of Operating Expenses of The Ontario Power Company,
The Toronto Power Company, Existing (before 1925) (not operating),
and The Government-Whipps Power Development

Total of Four Plants, 1925-1926

1925-1926 1926-1927 1927-1928 1928-1929 1929-1930

Interest	1.00	1.00	1.00	1.00	1.00
Operation	1.00	1.00	1.00	1.00	1.00
Sinking Fund	1.00	1.00	1.00	1.00	1.00
Renewals	1.00	1.00	1.00	1.00	1.00
Water Rental	1.00	1.00	1.00	1.00	1.00
Depreciation	1.00	1.00	1.00	1.00	1.00
Taxes and Insurance	1.00	1.00	1.00	1.00	1.00
Bank charges, bank	1.00	1.00	1.00	1.00	1.00
discount, etc.	1.00	1.00	1.00	1.00	1.00
Add charges on 10.15	1.00	1.00	1.00	1.00	1.00
total, 10.15-10.15	1.00	1.00	1.00	1.00	1.00
Interest 10.15-10.15	1.00	1.00	1.00	1.00	1.00
total 10.15-10.15	1.00	1.00	1.00	1.00	1.00
total 10.15	1.00	1.00	1.00	1.00	1.00

Note: * - Sinking fund returned on the Government-Whipps Plant

The most important element and the main governing factor in the cost of power is undoubtedly the annual charge for interest on capital investment,

which in the table given above amounts to about 70% of the total. When to interest charges are added payments on sinking fund and renewal reserve accounts, the relative percentage to the total cost amounts to about 85%. This fact cannot be too strongly impressed upon all concerned with the future of the undertakings of the Commission. It should ever be kept in view when expenditures are being made or are contemplated for power developments, and every effort made to keep construction costs as low as possible, having due regard to proper and effective design and workmanship. Each ten dollar increase in the capital cost per horse-power of a power development of the Commission, entails a substantial increase in the annual cost per horse-power of all energy supplied from such development. We have previously drawn attention to the fixed rate of interest of four per cent. per annum which prevailed under The Power Commission Act until the amendment to the Act in 1915 to which effect was not given until 1917. Comment has also been directed to the thirty-year sinking fund basis provided by the Act and to the standard renewal rates adopted by the Commission. Prior to 1917, assuming capital expenditure was properly estimated and was kept within the estimates, it was a simple matter to forecast the cost of power, because the main elements of such cost were definitely predetermined. The changes in the rate of interest payable by the Commission to the Province, and by municipal corporations to the Commission, upon capital expenditures to meet advances by the Province subsequent to October 31st, 1914, effected by statutory amendments made in 1915 and 1918, and dealt with fully in our report on the "Cost of Money Advanced to the Hydro-Electric Power Commission by the Province of Ontario",

which in the table given above amounts to about 70% of the total. When to interest charges are added payments on sinking fund and renewal reserve accounts, the relative percentage to the total cost amounts to about 82%. This must amount to the strongly suggested upon all accounts with the future of the undertaking of the Commission. It should also be kept in view that expenditures are being made or are contemplated for power development, and every effort made to keep competition down as low as possible, rather than regard to proper and effective design and workmanship. There can be no doubt as to the necessity of a power development of the Commission, entails a substantial increase in the annual cost per horsepower of all energy supplied from such development. We have previously drawn attention to the fixed rate of interest of four per cent. per annum which prevailed under the Power Commission and until the amendment to the Act in 1915 to which effect was not given until 1917. Commission has also been directed to the thirty-year sinking fund basis provided by the Act and to the standard renewal rates adopted by the Commission. Prior to 1917, assuming capital expenditure was properly estimated and was kept within the estimates, it was a single matter to forecast the cost of power, because the main elements of cost were definitely predetermined. The changes in the rate of interest payable by the Commission to the Province, and by municipal corporations to the Commission, upon capital expenditures to meet advances by the Province subsequent to January 1st, 1916, effected by statutory amendments were in 1915 and 1916, and dealt with fully in our report on the "Cost of Energy Supply" and to the Hydro-Electric Power Commission by the Province of Ontario.

rendered it somewhat more difficult to determine in advance the cost of power to municipal corporations entering or proposing to enter into contracts with the Commission for a supply of power.

The Commission, has, however, had considerable latitude in several outstanding respects. There is no definite restriction regarding renewal rates, and as pointed out, it has greatly reduced its renewal reserves thereby making substantial reductions in the cost of power. It has fixed at will, the amount credited to contingency reserves until now many of these reserves are, in our opinion, much too small. In the establishment of sinking fund, the Commission appears to have assumed authority under the terms of the Niagara Development Acts, to entirely depart from the provisions of The Power Commission Act and has greatly extended the period of repayment thereby decreasing the annual charges entering into the cost of power.

For the purpose of illustrating in concrete form the component parts of the cost of power charged to a municipal corporation which has entered into a contract with the Commission for a supply of electrical power or energy, and to exhibit a comparison of the total cost to each of two municipalities of the same system at different distances from the source of supply, our Accountants, under instructions, have prepared charts which, with comments thereon, are included in their report "General Accounting System".

The chart inserted as page 88 of this report gives a graphic representation of the various elements entering into the cost of power to the municipal corporation of the Town of Gaderich in the Niagara System for the

year ending October 31st, 1921. The chart forming page 89, exhibits a comparison between the cost of power chargeable respectively to the municipal corporations of Niagara Falls and Windsor, the two furthest distant from one another in the Niagara System.

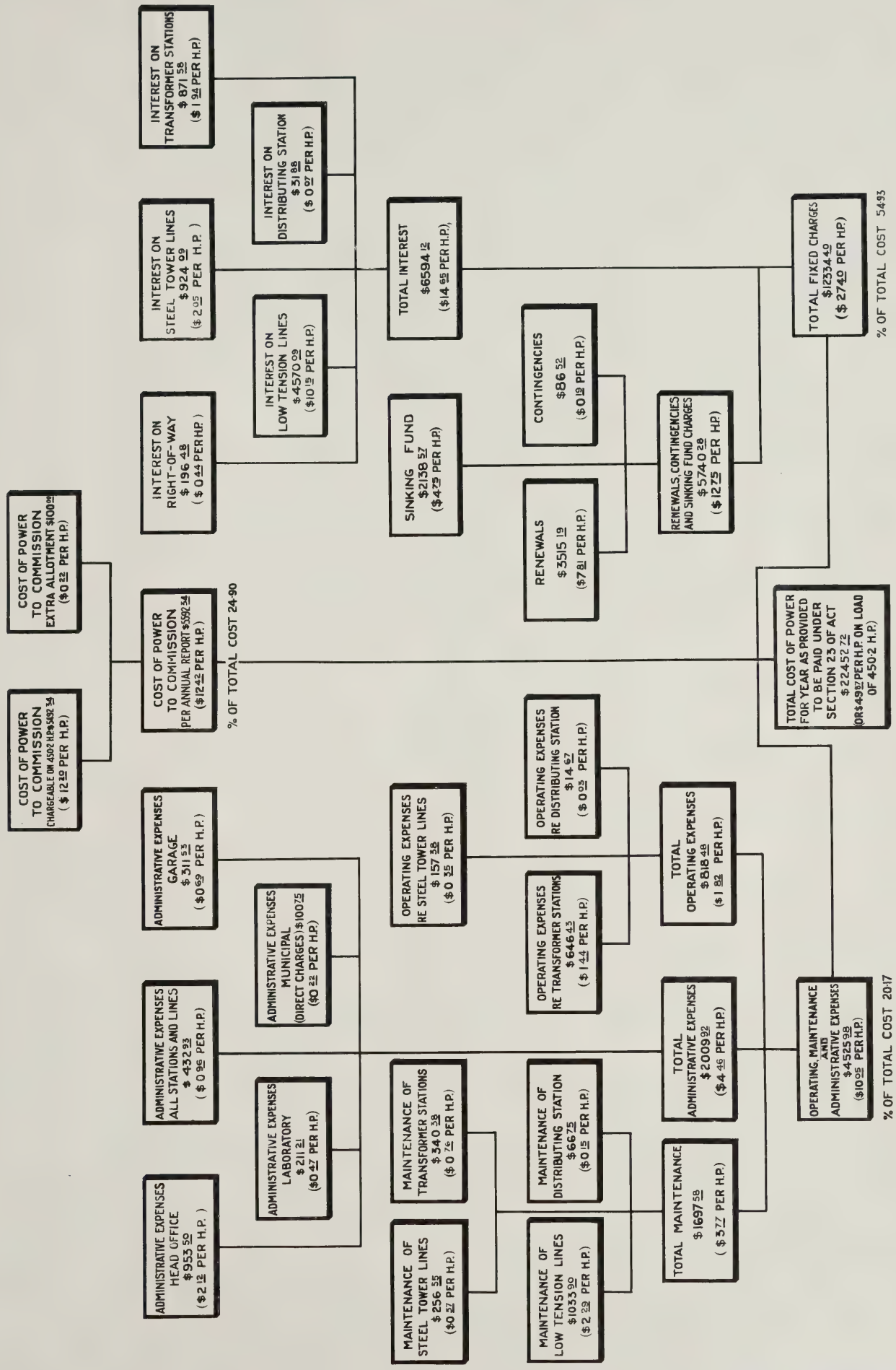
Method of Billing

The Commission has adopted the convenient practice of fixing for each municipal corporation, for portions or all of each year, an estimated cost per horse-power to be paid. Accounts are rendered for each month of the year on the basis of such estimated cost. At the expiration of the fiscal year, the actual cost of such power, as determined by the Commission, is adjusted and apportioned by the Commission amongst the several municipal corporations of the different systems and a "thirteenth bill" rendered. Dependent upon the accuracy of the Commission's estimated cost or upon such estimated cost being greater or less than the finally determined actual cost, the "thirteenth bill" may show no balance due either way, or a balance in favour of or against the municipal corporation. If there be a balance in favour of the Corporation, interest thereon at the rate of four per cent. per annum is allowed it by the Commission until the balance is exhausted by charging against it subsequent power bills, and if the balance be against the Corporation, interest thereon until paid at the rate of seven per cent. per annum is charged by the Commission. Except in the case of power bills incurred during the first three years in which a municipal corporation receives power from the Commission, there is no authority for the deferment of payment of power bills, and it is

from the system in the electric system.
that corporation of electric utility and system, the two former divisions
operation between the two at present chargeable respectively to the utility
and electric utility, 1911. The electric utility pays 65, and the

Method of Billing

The Commission has studied the accounting practices of utility
The utility companies, the practice of all of them, as indicated
that the utility companies are paid. Accounts are rendered the utility companies
year on the basis of meter readings. At the expiration of the fiscal
year, the actual cost of each meter, as determined by the Commission, is the
basis and application by the Commission through the several utility companies
of the electric utility and the electric utility. The Commission
upon the basis of the Commission's estimate of the cost of each meter
and being rendered to the utility companies. The utility companies
"electric utility" and the utility companies. It is the policy of the
of the electric utility companies. It is the policy of the
the utility companies. The utility companies are paid for each meter
billed to by the Commission. The utility companies are paid for each meter
it is the policy of the Commission. The utility companies are paid for each meter
cannot therefore be paid at the rate of seven per cent. per annum in arrears
by the Commission. The utility companies are paid for each meter
three years in which a utility company renders power to the Commission,
there is no liability for the payment of power bills, and is in



COST OF POWER TO

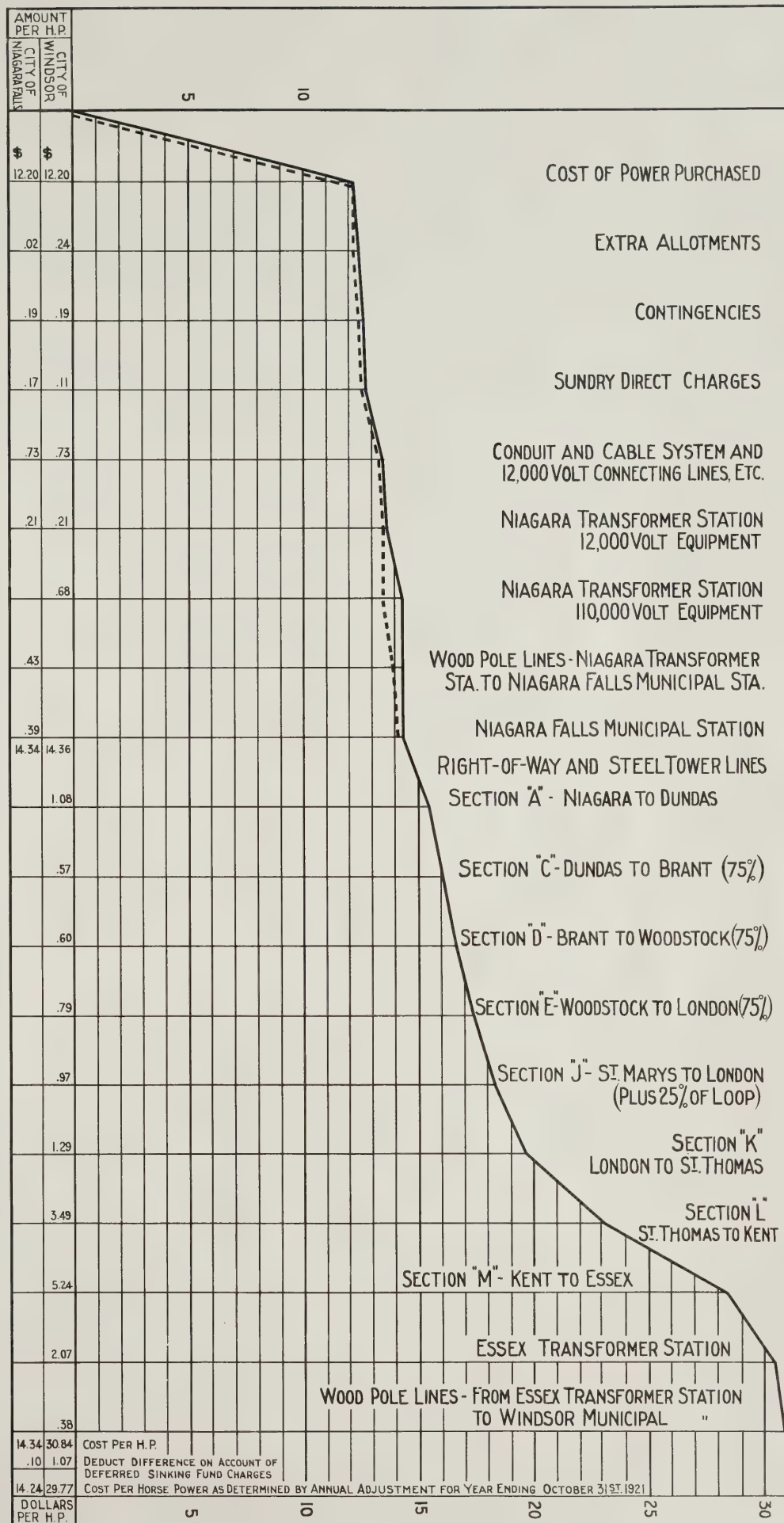
TOWN OF GODERICH

FOR YEAR 1920-1921

PRICE, WATERHOUSE & CO.
SEPTEMBER 18TH, 1922

% OF TOTAL COST 54.93

% OF TOTAL COST 20.17



WINDSOR

LEGEND

WINDSOR

HYDRO-ELECTRIC INQUIRY COMMISSION HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO CHART SHOWING RELATIVE COSTS OF POWER TO CITY OF NIAGARA FALLS AND CITY OF WINDSOR, ONT.

FOR THE FISCAL YEAR ENDING OCT 31, 1922
Toronto, Oct. 18th, 1922 Made by *W. J. D.* Checked by *J. D.* and *L. A. H.*

PRICE, WATERHOUSE & Co

the duty of the Commission to insist upon prompt payment of power accounts by municipal corporations, which duty, as will be seen by perusal of our reports upon several of the systems, was not fulfilled. Many outstanding accounts of this nature have, however, been wiped out, as has been hereinbefore indicated, by credits to municipal corporations of amounts transferred from renewal reserves.

Section 21

FLAT RATE FOR POWER THROUGHOUT THE PROVINCE

In the course of our inquiry a number of those appearing before us have advocated the establishment of a uniform flat rate for power throughout the Province. Others again have expressed strong opposition to the proposal. It is not only a revolutionary subject, but a very large subject, and we should not venture to make any recommendations in respect of it without going into it much further than we have and giving it very full consideration. Those who support the proposal urge that as the right to use the water belongs to the Province as a whole it should be sold to all alike. It is, of course, at the present time, sold to all alike at the point where it is produced. The fact that some have to pay a larger price than others for power produced at the same point is due to the cost of transmitting it. Coal is sold at the same price at the mines, but the cost of conveying it from the mines to the consumers varies very greatly.

the duty of the Commission to limit the power of power companies by municipal corporations, water works, as will be seen by perusal of the reports upon several of the systems, and the following. Any extension of this water law, however, does not mean, as has been insisted before indicated, by statute or municipal corporations or boards of trustees from personal reserves.

SECTION II

THE LAW AS TO THE POWER OF MUNICIPAL CORPORATIONS

In the course of our inquiry a number of those opposing before we have indicated the necessity of a system that will be power of the water works. Others again have expressed strong opposition to the proposal. It is not only a revolutionary subject, but a very large subject, and we should not venture to make any recommendations in regard to it without going into it more fully than we have and giving it very full consideration. These who support the proposal view that as the right to use the water belongs to the Province as a whole it should be sold to all alike. It is, of course, at the present time, sold to all alike at the point where it is produced. The fact that some have to pay a larger price than others for power produced at the same point is due to the cost of transmitting it. But it is sold at the same price to the cities, but the cost of conveying it from the mines to the consumers varies very greatly.

The supporters of a flat rate quote the practice followed by the Post Office, which delivers a letter ten miles away from the point where it is posted at the same price as it delivers a letter to a point thousands of miles away. They perhaps overlook the fact that for parcel post the rate charged varies with the distance that the parcel is to be carried. In the case of railroads, freight and passenger rates both vary as to distance. This is also the case, to a large extent, with the telegraph system. On the other hand, the additional cost of grades and cuts on a railroad are not taken into consideration when fixing the rates, which are just as low on that portion of a railroad where construction costs have been high as on that part built at much less cost. There is no doubt that in the larger centres and in those points near the place where the power is developed, there would be strong opposition to a flat rate. A flat rate would raise the cost of power in such centres as Toronto, Hamilton, Niagara and Ottawa. It would also be necessary to make a readjustment of the interest which municipalities now have in the undertakings of the Commission, although this interest now amounts to less than two per cent. of the cost.

Instances have been brought to our attention where municipalities at an equal distance from Niagara, have been put, some on the Niagara System, and some on another system where the rates are much higher. It is not unnatural that the municipalities that have to pay the higher rates, object to being put at a disadvantage with municipalities a few miles away which consume no more power, but which are put on a system where power is

[illegible]

cheaper. This is a difficult matter to deal with and has to be left with the Commission to work out in the most equitable way.

In paying half the cost of rural lines, the Legislature has gone a certain distance in the direction of a flat rate. The question of "water rentals" also has a bearing on this subject and is dealt with in a later part of this report. The whole question resolves itself into one for consideration by the Government and the Legislature.

COPY

... This is a difficult matter to deal with and has to be left with
the Commission to work out in the most appropriate way.

In paying this sort of words, the Commission has
made a certain statement in the direction of a clear path. The question of
"order" remains, also has a bearing on this subject and is dealt with in a
later part of this report. The whole question remains itself into one for
consideration by the Government and the Legislature.

COPY

PART VI - ESTIMATESSection 22GENERAL

Two distinct, but in a measure inter-related, classes of estimates in connection with the operations of the Commission have been the subject of investigation by us. The two classes are:

- (a) Those estimates made by the Commission of the capital cost of works to be operated by the Commission.
- (b) The estimates made by the Commission of the price which will be payable annually by newly incoming municipal corporations to the Commission for electrical power or energy supplied under contracts, such price being the total annual cost of such power to the Commission.

The total cost of power being largely governed, as we have indicated in preceding sections, by the capital investment, the accuracy and value of estimates of class (b), of course, depends in a large measure upon those of class (a) being correct and reliable. Another factor to be considered in estimating the annual cost of power in any particular case is the accuracy of the estimate of the amount of power that will be required. It will readily be realized that if the quantity of power consumed by a municipal corporation be greater or less than its estimated requirements, there will be a corresponding variation in the price payable for power, because to arrive at the estimated cost per horse-power the proportion of fixed charges and other elements of costs apportioned to any municipal corporation is divided by the number of horse-power estimated to be required.

ANNEXURE - II

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ANNEXURE

The attached, which is a summary of the findings of the Commission in connection with the operations of the Commission have been the subject of investigation by the Commission. The two classes are:

- (a) Those estimates made by the Commission of the capital cost of works to be operated by the Commission.
- (b) The estimates made by the Commission of the value which will be payable monthly by the Commission for the use of the power supplied to the Commission for the use of the power supplied to the Commission, which will be the total cost of such power to the Commission.

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The total cost of power being largely recovered, we have limited in preceding sections, to the original investment, the average and value of estimates of class (b), of course, depends on a large number of factors. These of class (a) being correct and reliable. Further factors to be considered in estimating the annual cost of power is the percentage of the capacity of the estimate of the amount of power that will be required. It will be noted that if the quantity of power consumed by a particular installation is greater or less than the estimated requirements, there will be a corresponding variation in the price payable for power, because it varies as the estimated cost for power varies the proportion of fixed charges and other elements of costs specified in any particular installation is divided by the number of units of power required to be supplied.

In our reports upon the various systems and other undertakings of the Commission, we have dealt with certain estimates of both classes insofar as they relate to these individual undertakings. Many estimates prepared by the Commission have not been investigated by us, but those of both classes relating to the larger undertakings of the Commission have been examined and considered by our Consulting Engineer, Accountants and ourselves, and our conclusions in respect of several are summarized in the following sections.

Section 23

ESTIMATES OF CAPITAL COST

Cameron Falls Development (Thunder Bay System)

Our report entitled "Interim Report on Thunder Bay System" relates the circumstances under which the power development to serve the Cities of Port Arthur and Port William was undertaken. The municipal corporations of these cities entered into agreements with the Commission under which they assumed liability for the cost of works to supply them with electrical power or energy. The representatives of the Commission, during negotiations with the municipal corporations which resulted in the agreements, and in public discussion, had announced that a water power privilege at Dog Lake would be utilized and the power required developed there at an estimated capital cost of \$3,000,000.00. The Dog Lake Development was not proceeded with, but without consulting the municipal corporations interested and in total disregard of additional financial burdens to be cast upon such municipalities, the Commission commenced the construction of a much larger power plant at Cameron Falls on the Nipigon River, the

In our report upon the various systems and their characteristics of the Commission, we have dealt with certain aspects of both classes in order as they relate to these individual undertakings. Many estimates prepared by the Commission have not been investigated by us, but those of both classes relating to the largest undertakings of the Commission have been examined and confirmed by our Consulting Engineer, Architects and Surveyors, and our examination in respect of several are summarized in the following sections.

Section 11

WITNESSES OF EVIDENCE

Witnesses of Evidence (Continued)

Our report entitled "Witnesses of Evidence" relates to the circumstances under which the power development is given the State of New York and New England. The principal corporations of these States entered into agreements with the Commission under which they assumed liability for the cost of power to supply their electrical power at capacity. The representatives of the Commission, during negotiations with the principal corporations which resulted in the agreements, and in certain instances, had announced that a water power privilege of the State would be utilized and the power required developed there as an estimated capital cost of \$5,000,000.00. The New York Development was not completed with the amount invested in the State. These corporations represented and in some instances at additional financial aid to be used upon such investigations, the Commission announced the construction of a new large power plant at Geneva Falls on the Niagara River. The

outlet of Lake Nipigon. To October 31st, 1922, the expenditures by the Commission in connection with the cost of the Nipigon Development (Thunder Bay System) amounted to \$6,642,770.13 and the Chief Engineer of the Commission has estimated the additional capital expenditure required to complete the development at \$6,357,229.87, making a total capital investment of \$13,000,000.00 or over four times the estimated cost of the Dog Lake Development. While it is highly probable that Cameron Falls was the better site for the development this does not justify the lack of frankness on the part of the Commission in its dealings with the municipalities.

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The manner in which the work on the Cameron Falls plant was accomplished and the economy or otherwise in expenditures we have not an opportunity of investigating and we express no opinion thereon, but our inquiries have disclosed the fact that the expenditure of a sum so greatly in excess of that stated to the municipal corporations, which were assuming liability therefor, as being necessary, has occasioned great dissatisfaction and has placed upon the Province a burden never contemplated by the Government. This burden has been annually increasing and will continue to do so, until the Commission is able to find customers for the power available. The municipal corporation of Port Arthur has refused to pay "at cost" for the power supplied to it and the Commission has been unable to pay to the Province interest upon advances, the arrears of which to the end of 1923 we are informed amounted to \$566,000.00. As stated in our report we have no doubt that this development will eventually be able to pay its way.

in its dealings with the municipalities.

1. The manner in which the work on the Cameron Falls plant was accomplished and the manner in which the Commission is conducting its work on the development of the plant is being reviewed. The Commission is also reviewing the manner in which the work on the Cameron Falls plant was accomplished and the manner in which the Commission is conducting its work on the development of the plant.

Sandwich, Windsor & Amherstburg Railway

As will be seen by our report relating to the above combined railway system acquired and operated by the Commission on behalf of a group of municipalities, the Commission expended on rehabilitation up to October 31st, 1922, the sum of \$1,034,238.39, not including the amount of \$55,051.19 expended to that date upon construction material not then used. The estimate prepared by the Commission, and submitted to the municipalities interested and to the Government of the cost of this rehabilitation, was \$893,580.00.

The excess expenditure over estimated cost, was, therefore, \$140,658.39 and apparently part of this amount was expended prior to any authority having been given to the Commission to expend on rehabilitation more than the proceeds from the sale of \$900,000.00 of its bonds, which had been guaranteed by the Province. An over-run of 15% in work of this nature is not an unusual occurrence as there are many uncertainties.

Guelph Radial Railway

Under the heading of rehabilitation in our report entitled "Report on Guelph Radial Railway", we show that in a report prepared by the engineers of the Commission in November, 1919, the estimated expenditure required for rehabilitation was placed at \$197,000. The actual expenditure for this purpose up to January 31st, 1923, amounted to approximately \$265,700 so that the actual cost at that date exceeded the estimate by approximately \$68,700 or 35%. While there is no doubt that in rehabilitating the railway, the Commission put the road in excellent shape resulting in a great improvement in both road-bed and equipment, the large increase in cost thus added considerably to

Section 1. General Information

As will be seen by the report included in the above entitled
 railway system situated and operated by the Commission on behalf of a group
 of municipalities, the Commission expended no considerable sum for repairs
 and, also, the sum of \$1,250,000.00, not including the interest of \$25,000.00
 expended in that date upon construction material and labor cost. The estimate
 prepared by the Commission, and submitted in the accompanying statement
 and to the Government of the cost of this rehabilitation, was \$250,000.00.
 The various expenditures were estimated as follows:
 \$150,000.00 and approximately half of this amount was expended prior to the
 authority having been given to the Commission to expend on rehabilitation
 more than the proceeds from the sale of \$800,000.00 of its bonds, which had
 been authorized by the Board. The amount of \$150,000.00 of this nature
 is not an unusual expenditure as there are many municipalities.

Section 2. Detailed Information

Under the heading of rehabilitation in our report entitled
 "Report on the Rehabilitation of the Railway System," we have stated in a recent paragraph of the
 engineers of the Commission in January, 1913, the estimated expenditures for
 the rehabilitation was placed at \$175,000. The actual expenditures for
 this purpose up to January 31st, 1913, amounted to approximately \$150,000.00
 that the actual cost of this date exceeded the estimate by approximately \$25,000.00
 or 25%. While there is no doubt that in rehabilitating the railway, the Com-
 mission put the road in excellent shape resulting in a great improvement in the
 road-bed and equipment, the large increase in cost that added considerably to

the annual carrying charges of the undertaking and these costs must necessarily add to the deficit which has accumulated.

Eugenia System

The Eugenia System includes a large development plant at Eugenia Falls which was constructed by the Commission to serve this system. We have not had an opportunity of investigating the estimates and costs of this work, but it was stated by witnesses appearing before us that the manner in which the Commission carried on the construction of certain of its transmission lines was very costly and that the work could have been carried out much more economically by the municipalities themselves. The following is an extract from our report on this system:

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"Mr. Legate's estimate of the saving that might be effected if the work of erecting transmission lines were done under the supervision of local engineers was vigorously disputed by the representatives of the Commission, and we did not go into the matter at sufficient length to justify us in making any findings on the particular questions at issue. In the construction of transmission lines there should always be full and cordial co-operation between the Commission and the several municipal corporations interested. In cases where the Commission finds that the work of constructing transmission lines can be done efficiently and economically by local engineers and their gangs, it would seem to be a wise policy to let them do the work under the direction of the Commission. If this were done the municipalities would have no ground for complaints as to costs, such as were made before us, and it would soon be known whether or not the statements made by Mr. Legate were well founded."

Rideau System

The development plant located at High Falls on the Mississippi River was constructed by the Commission during the post-war period. Authority to proceed with this work was obtained from the Government on the basis of a

letter dated June 26th, 1918, addressed to Sir William Hearst, by the Chairman of the Commission in which is contained the following information regarding the estimated cost of the High Falls Development:

"The work contemplated consists of the complete development of the High Falls for 3,000 horse-power, and 22 miles of high tension line to Perth at a total estimated cost of \$340,000."

Our report on the Rideau System shows that the investment in the High Falls Development as at October 31st, 1922, amounted to \$696,055. The actual cost of this work, therefore, exceeded the estimate for it and the high tension line by more than 100%.

There is no record of the Commission ever having advised the Government that its estimate would be exceeded, nor is there any record of the Government having questioned the excess expenditure.

The importance to municipal corporations in the system of the excess expenditure upon the High Falls plant will be realized when it is considered that the rated capacity of the plant is 2800 horse-power and that an excess of cost of \$356,000 represents an increase of capital cost per horse-power of over \$127.00, and an increase in the annual cost of power at the point of generation of about \$10.00 per horse-power.

The Ontario Power Company

In our report on The Ontario Power Company of Niagara Falls detailed reference is made to the estimated cost and actual cost of the construction of the Third Pipe Line which was undertaken by the Commission during the

"The most concentrated consists of the composite developed by the FBI, which has been used by the FBI and other law enforcement agencies for many years."

total loss of life was, however, avoided as follows: In the first
stage development as at present 1960, 1961, 1962, 1963, 1964, 1965,
the report on the second stage shows that the Government is the

100%

There is no record of the Commission ever having advised the Government that its actions would be unethical, nor is there any record of the Government having questioned the ethics of its actions.

the importance to American corporations in this system of the

Journal of Management Education 32(1)

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years 1918 and 1919. In that report, we show, that, according to the Minutes of the meeting of the directors of The Ontario Power Company held on December 20th, 1917, the Chief Engineer submitted a report which stated that an estimated expenditure of \$1,806,000 in the construction of a wood stave pipe line would provide an additional 50,000 horse-power. Construction work was begun early in 1918 and completed in the spring of 1919. The total cost of the work was \$3,514,676.62, or an increase over the estimated cost of almost 100%.

We set out in the report above referred to a series of twelve reasons given by the engineers of the Commission for the cause of the increased expenditure. In our analysis we point out that the original estimate was made before any detailed study of the project had been made. We further show that the great difference between the estimated cost and the actual cost was not alone due to changes in, and additions to, the design or to additions and contingencies that it was impossible to foresee or provide for, but to a large extent to the omission of important items and failure to provide for conditions and contingencies which should have been taken into account. As we state in our report: "There was no study of the cost such as would have been made by a contractor tendering to construct the work for a lump sum". We also show in our report, the percentage of overrun for the main items of the work. Amongst these items is one in respect of engineering expenses and interest which together amount to over \$240,000, and which were entirely omitted from the estimates submitted.

Under authority of an Order-in-Council dated February 6th, 1918, the Commission obtained a loan from the Bank of Montreal of \$1,250,000 to meet

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the University received a loan from the State of Kentucky in 1901, and in 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580,

in part the cost of this work. Instead of applying to the Government for additional funds to complete the work, the Commission, as pointed out in our report on the Central Ontario System and again in our report on The Ontario Power Company of Niagara Falls, used an amount of \$1,700,000, which had been voted by the Legislature for construction of works in the Central Ontario System and which was held by the Commission as the Agent of the Government for this purpose, to complete the construction of the Third Pipe Line. In addition to displaying incomplete and incorrect knowledge of the cost of this work and want of candour in not informing the Government of the actual cost when it was in a position to ascertain same, the Commission committed an entirely unwarranted act in diverting, for this work, funds voted by the Legislature for other purposes entirely.

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Queenston-Chippawa Power Development

A detailed account of all features of this Development is given in our report thereon submitted to Your Honour. In our investigations into this undertaking and our report thereon, special attention was paid to what we considered a prominent, and very important, feature of the Development, namely, the estimates of costs prepared, at different stages of the work, by or for the Commission and its course of procedure in respect thereof. We shall not here make any extended comments upon the subject so fully dealt with in the report mentioned, but desire to briefly summarize the conclusions reached by us.

After making due allowance for the magnitude and unique character of the work designed and carried out, and the very difficult war and after war

conditions prevailing at that time, our investigations have led us to the conclusion that the Commission and its engineers, in preparing the estimates, were far too optimistic, and that the estimates were in many respects strikingly inadequate. The management of the work of construction should never have been left in the hands of engineers already overburdened with other work, and without that wide experience in construction work of great magnitude that would have justified the Commission in placing the management in their hands.

Not only were the estimates, which were from time to time prepared and submitted or intimated to the Government, based upon unit costs which were far too low for certain important parts of the work, but they were also based upon under-estimated quantities. Ample opportunity was afforded for correction of previous estimates as the work progressed, and actual costs had been ascertained, but the Commission persisted in holding to its original estimates in many particulars, and in informing the Government on different occasions that the estimated cost would not be exceeded. To the end of the year 1919, the highest estimate acknowledged by the Commission and submitted to the Government for the work then contemplated was \$24,000,000 to \$25,000,000 which cost did not include the intake, the addition of which would bring the cost to between \$26,000,000 and \$27,000,000. Early in 1920 the Chief Engineer of the Commission informed Mr. Clarkson, who was then completing his audit of the accounts of the Commission for the fiscal year ending October 31st, 1919, that the cost would be about \$40,000,000, an increase in prospective cost within a few months of \$14,000,000. After the expiration of another

limited the Commission in giving the statement in their hands.

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*See
Memorandum
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six months, on the basis of a report of Mr. Stuart and Mr. Kerbaugh, the cost was fixed at about \$50,000,000, a further increase of \$10,000,000. The actual cost of the work for which these various estimates were given was over \$64,000,000.

While we find that at least \$12,000,000 of the difference between estimated and actual cost was unjustifiable, we also find, as already pointed out in our report dealing with this subject, that much of the remainder of the increase in expenditure was of a justifiable nature, brought on entirely by the abnormal conditions prevailing during the construction period, and for which adequate provision had not and to some extent could not have been made. About \$7,000,000 is accounted for by reason of increased quantities and changes in design. The original estimate was too low by an amount of about \$4,000,000 almost entirely on account of the fact that a grave error was made in assuming that the shovel equipment could do more than twice what it actually did. These matters were of a very serious character and failure to recognize and to openly acknowledge the mistakes that had been made had the effect of entirely misleading the Government, for as pointed out, the Commission continued to maintain to the end of 1919 that the original estimate submitted by it to the Government was entirely adequate.

It is quite clear that the estimate for this work submitted to the Government in 1917 was unsound in many respects, and it is clear that, aside altogether from the matter of increased quantities and changes in design, the cost of the work would have largely exceeded the estimate even if war conditions had not continued so long. It is unfortunate that the estimate was

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the number, on the basis of a report of Mr. Street and Mr. Thompson, the cost was fixed at about \$25,000,000, a further increase of \$50,000,000. The actual cost of the work for which these estimates were given was \$10,000,000.

It is also true that at least \$10,000,000 of the expenditures were

estimated and actual cost was approximately, we also find, as already pointed out in our report dealing with this subject, that much of the remainder of the increase in expenditures was at a profitable margin, though we entirely by the abnormal conditions prevailing during the construction period, and for which

abnormal conditions had not and to some extent could not have been made. That

\$7,500,000 is accounted for by reason of increased quantities and changes in

design. The original estimate was for the work to be done at about \$1,500,000

almost entirely on account of the fact that a great many were made in carrying

out the actual construction work as more than twice what it actually did. These

figures were at a very serious character and failure in execution and in quality

and quality. The estimates that had been made had the effect of entirely misleading

the Government, for as pointed out, the Government continued to maintain as

the end of 1912 that the original estimate was correct by it in the Government

was entirely adequate.

It is also clear that the estimates for this work were entirely

the Government in 1917 was somewhat in many respects, and it is clear that

with reference to the matter of increased quantities and changes in design,

the fact of the work would have largely increased the estimate with it only

figures was not sufficient to show. It is furthermore clear that the estimates were

not submitted to consulting engineers at the time that it was submitted to the Government, instead of being submitted to them years afterwards. We have no doubt that if it had been submitted to them at that time, its inadequacy and the extreme optimism shown in its preparation would have been pointed out.

The matters just referred to are serious enough, but, as we have shown in our report, more serious still was the persistence of the Commission in continuing to use as a basis of conducting this work, the unsound and incorrect assumptions made in the original estimate, even though it must have known during the first year or two of the construction period that its expectations could never be realized. We refer particularly to the mistake made in over-estimating the capacity of the shovels. The shovels did less than half that which it was anticipated in the estimates they would do. This led to delays in the work which could have been almost entirely avoided had the Commission purchased additional construction plant as soon as it knew of its error. It was extremely dilatory, and it was not until late in 1920 and during the early part of 1921 that the additional equipment was procured. Extra men were then employed and the work put on a "rush schedule". Much of the additional equipment was used for only a few months. The rush schedule added enormously to the cost of the work without adding anything to its capacity. A conservative estimate of the unjustifiable excess cost directly chargeable to this procedure and other factors is approximately \$12,000,000.

For a detailed statement showing how the additional cost was incurred we must refer you to our report thereon.

was admitted to receiving equipment at the time that it was admitted to the Government, instead of being admitted to some years afterwards. It is no doubt that it is not being admitted to time as that time, the Government, and the various agencies which in the Government would have been pointed out.

The various facts referred to are correct enough, but, as to how about in our report, were various still was the persistence of the Government in continuing to use as a basis of computing this work, the amount and in correct assumptions made in the original estimate, even though it may have known during the first year or two of the construction period that the equipment would never be utilized. The reason for this is the estimate was in over-estimating the quantity of the equipment. The surplus did not then half that which it was anticipated in the estimates they would do. This led to

delays in the work which would have been almost entirely stopped had the Government purchased additional construction plant as soon as it knew of the error. It was extremely difficult, and it was not until late in 1933 and during the early part of 1934 that the additional equipment was purchased. Later on very few equipment had the work had on a "cash estimate". Some of the additional equipment was not for only a few months. The cash estimate which was made to the best of the work which was required to the equipment. A representative estimate of the equipment which was not possible to make in this program and that estimate is approximately \$1,200,000.

For a detailed statement showing how the additional work was incurred we must refer you to our report thereon.

This is a very striking example which shows the absolute necessity for estimates being prepared accurately, for incorrect estimates may not only be misleading as regards the question of finished cost, but inaccurate assumptions made in such estimates may lead to a combination of circumstances bringing about excess costs of a totally unwarranted character.

Niagara System

In our report on the Niagara System, we commented upon the discrepancy between the estimated and actual cost of a transmission line to the municipality of Dunnville. The amounts involved were comparatively small, but the difference between an estimated cost of \$33,000 and an actual cost of \$65,000 warranted the citizens of Dunnville in expressing dissatisfaction at the action of the Commission.

The increased capital cost of the transmission line increased greatly the cost of power to the Town of Dunnville, but the Commission appears to have been anything but frank with the town. In dealing with the matter of increases, Mr. Jeffrey admits that the Town of Dunnville was never advised of a change that was made in plans which in itself largely increased the estimate submitted. Mr. Jeffrey says:

"We figured at that time that the change in the line from the pin type to the suspension type would cost approximately \$17,000 and that of course would increase the cost of the power to Dunnville, and I suppose we should have gone to Dunnville and re-submitted the matter and told that we had to change the type of line and that would increase the cost of power to them."

This is a very striking example which shows the extreme necessity for attention being given to the fact that the Government has not only been making no attempt to control the situation at all, but has been making it worse by its action in the matter of the National Bank of Commerce.

Chicago, May 10, 1933

In our report on the Chicago situation, we mentioned that the Chicago situation was the most serious one of the kind in the country. The situation is now even more serious than it was when we first reported on it. The situation is now even more serious than it was when we first reported on it. The situation is now even more serious than it was when we first reported on it.

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The increased capital cost of the Chicago situation is the most serious one of the kind in the country. The situation is now even more serious than it was when we first reported on it. The situation is now even more serious than it was when we first reported on it.

We figured at that time that the Chicago situation was the most serious one of the kind in the country. The situation is now even more serious than it was when we first reported on it. The situation is now even more serious than it was when we first reported on it.

It would appear, therefore, that Dunnville had just cause for complaint. Under the original estimate, the rate was \$27.50 per horse-power. It was, for 1922, \$37.26. It was much higher but the rate was lowered owing to the reduction in renewal rates in December, 1922, to which reference has already been made. This case of the dissatisfaction expressed by the Town of Dunnville regarding estimates submitted to it, is the old story, told to us time after time by representatives of various Hydro Municipalities, of low estimates, and a high cost as compared with the estimates.

That the municipalities in the Province should have placed implicit confidence in the ability of the Commission is not strange, for every assurance has been given them by public utterances of the Chairman of the Commission and members of his staff that statements and figures submitted by them can be accepted at all times at their face value.

We quote hereunder a statement made by the Chairman of the Commission, as reported in the "Mail and Empire" of November 21st, 1907. This statement was made in the early days of the activities of the Commission and is typical of others that have appeared from time to time down to the present day:

"I desire however, to point out and emphasize the fact that there is absolutely no risk, either to the Province or to the municipalities, that the actual cost of power will exceed the amounts set forth in the by-laws, as no contract will be entered into by the Commission for the supplying of power until, from tenders received for the construction of the

transmission lines, transformers and other appliances, the Commission has ascertained that the estimated cost of the work will not be exceeded."

That the Chairman of the Commission once had a very high regard for the necessity of the Commission making accurate and reliable estimates is evidenced by his answer to a delegate at the meeting at Galt in July, 1906, when he was promoting the scheme. At this meeting he was asked what would happen should a municipality accept the Commission's estimate and find afterwards that there had been a mistake he said:

"I think we would have to appoint another Commission."

In the case of Dunnville not only was the estimate wrong, but the Commission knowing it was wrong, failed to disclose the matter until the town was irrevocably committed.

We have referred to the Dunnville case because there was a special hearing in the case of that municipality and also because Mr. Jeffrey's statement, before quoted, sets forth in a few words what we believe to be the general attitude of the Commission in regard to estimates. Our investigation has shown that estimates are a very weak point in the administration of the Commission. Many of the estimates submitted to both the Government and the municipalities were apparently prepared without any sense of responsibility on the part of the Commission, and with the object of securing authority to proceed with the work rather than to give to the Government or the municipalities a clear idea of probable cost.

transmission lines, transformers and other appliances, the Commission has estimated that the estimated cost of the work will not be exceeded.

That the Chairman of the Commission was not a very high regard for the necessity of the Commission making accurate and reliable estimates is evidenced by his answer to a delegate at the meeting at Salt Lake City, Utah, when he was presenting the report. At that meeting he was asked what would happen should a municipality accept the Commission's estimate and find afterwards that there had been a mistake in the estimate.

"I think we would have to appoint another Commission."

In the case of Honolulu and only one the estimate was not the Commission's estimate. It was wrong, failed to disclose the matter until the fact was discovered afterwards.

We have referred to the Honolulu case because there was a special feature in the case of that municipality and also because Mr. Jettiffe, president, before called, said there is a very small city in the United States of the Commission in regard to estimates. The investigation has shown that estimate was a very small one in the estimation of the Commission. Any of the estimates submitted to both the Government and the municipalities were generally prepared without any sense of responsibility on the part of the Commission, and with the object of securing a high price to be paid for the work. It is time to give to the Government or the municipalities a clear idea of the probable cost.

Section 24ESTIMATES OF POWER RATES

We have already pointed out that the price chargeable for power to municipal corporations which have entered into contracts with the Commission for a supply is, to a large extent, dependent upon the fixed charges in connection with capital investment in works, consisting of proportionate payments for interest, sinking fund and renewal reserves which together often total as much as eighty-five per cent. of the "cost of power", payable by these municipal corporations to the Commission.

The clear intention of The Power Commission Act was, and still is, unless amendments, to which we shall refer later, indicate a change of intention, that the electors of any municipality contemplating an agreement with the Commission for a supply of power shall have full opportunity of ascertaining the price to be paid before voting upon a by-law authorizing the execution of an agreement. The Act provided a simple and well-defined method of procedure. Any municipal corporation was privileged to apply to the Commission for a supply to it of electrical power or energy. The Commission was thereupon required to furnish to the corporation a statement of the maximum cost per horse-power at which the power would be supplied at the point of development or of its delivery to the Commission, and an estimate of the cost of a transmission line. The Council of the corporation might then enter into a provisional contract with the Commission, which contract was not to be binding upon the corporation until a by-law approving the same had

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

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and the fact that the Government has been unable to secure the necessary funds to meet its obligations, it is evident that the Government is in a position of financial weakness. The Government has been unable to secure the necessary funds to meet its obligations, it is evident that the Government is in a position of financial weakness.

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received the assent of qualified electors. The estimates of the Commission or a summary thereof and a copy of the provisional contract were required to be published with or to form part of the by-law. After assent of the electors to execution of the contract by the corporation and approval of the Lieutenant-Governor in Council, the Commission was authorized to execute and carry out the contract, and to do all acts necessary for that purpose. The Province and the Commission were declared to be free of any liability by reason of any error or omission in any estimates, plans or specifications prepared or furnished by the Commission.

This course of procedure still forms part of The Power Commission Act and is set forth in Subsections (1) to (6) inclusive, of Section 18. In 1914, however, Subsection (7) was added as an amendment to Section 18. The history and effect of this amendment has been reviewed by our Legal Advisers in a report to us on "Legislation affecting Power Undertakings of the Hydro-Electric Power Commission of Ontario", which has been transmitted by us to Your Honour. It appears that a section of The Power Commission Act, 1909, was passed to meet special circumstances which had arisen in connection with the contract between the Commission and the Corporations of Toronto, Hamilton and other municipalities for the supply of power from Niagara Falls. The object in view appears to have been to permit other municipal corporations in western Ontario, not parties to the contract but the electors of which had voted favourably upon a question submitted to them pursuant to the Municipal Amendment Act, 1903, as to the supply of electrical power from the Commission, to enter into contracts with the Commission in the form set forth in the schedule to the amending Act, without submitting a by-law approving the same for the assent of the electors.

In 1914, the section of the Act of 1909, redrafted into a form to make it of general application was added as Subsection (7) to Section 18 of the general Act. The intention of the Commission, if not of the Legislature, is absolutely clear in procuring the enactment of this Subsection (7). It provided a simpler and more effective procedure for validation of contracts with municipal corporations, and avoided the necessity of publishing estimates of costs of power to them. It is not surprising that, as stated to us by Mr. Pope, Secretary of the Commission, the Commission adopted the policy of not publishing the estimates with the by-laws on the advice of Counsel. Although the Act relieved the Commission from liability for all error or omissions in its estimates, the removal of all causes of complaint on account of errors or omissions would commend itself to the Commission. It is, however, anomalous that there are two distinct courses of procedure in relation to contracts for the supply of power to municipal corporations in The Power Commission Act, one of which has become obsolete from non-use. It is to be noted also that in the opinion of our Legal Advisers, it is questionable if the method, now universally followed, is authorized.

From one point of view, it is immaterial whether or not the estimates of the Commission are brought to the knowledge of the electors of municipal corporations through publication thereof, as parts of by-laws, or as appears to be now usually done by informal and at times misleading or misunderstood statements by officers of the Commission. Formal contracts in which the maximum cost of power at point of delivery to the Commission is fixed are open to amendments by the Legislature on request of the Commission,

as was the contract of May, 1908, with municipal corporations of the Niagara System, when, by The Ontario Niagara Development Act of 1917, the provision in that contract determining the maximum cost as from nine to ten dollars per horse-power per annum according to the total quantity supplied, was amended and the municipal corporations were directed to pay the average cost to the Commission of power generated or purchased by it from plants at Niagara Falls or its vicinity.

The statements made by the Chairman of the Commission and quoted on pages 105 and 106 of this report, are far from being in accord with results. In our reports on all systems, we have included tables giving comparisons of estimates of cost of power, submitted by the Commission to the municipalities, with the actual cost to the municipalities. In a majority of the systems the actual cost has exceeded the estimated cost. In all but one of the municipalities composing the Eugenia System, the yearly average actual cost, before giving effect to the reduction in renewal charges, exceeded the estimated cost in varying degrees ranging from 1% to 187%. The actual cost to all municipal corporations of the St. Lawrence System, before reducing renewal charges, exceeded the estimated cost by from 31% to 141%. The excess in the case of the Thunder Bay System was great. In the Severn and Wasdell's Systems the excess was not as great as in others, but was appreciable.

The situation of the municipal corporations in the Niagara System has been indicated in our report thereon, and an analysis of estimates and actual costs shows that about 50% of the municipalities in the system are receiving their power at a rate equal to, or less than, estimated cost and

as was the contract of 1917, 1921, with municipal corporations of the various
 systems, whereby the Electric Light and Power Commission has not been
 in that contract determining the maximum cost as from time to time
 for power-power has been according to the total quantity supplied, and
 included and the municipal corporations were directed to pay the amount due
 to the Commission of power generated or purchased by it from plants of
 Electric Light and Power.

The statement made by the Chairman of the Commission and passed
 on pages 100 and 101 of this report, and the report being in accord with results
 in our reports on all systems, we have included tables giving comparisons of
 estimates of cost of power, submitted by the Commission to the municipalities,
 with the actual cost to the municipalities. In a majority of the systems the
 actual cost has exceeded the estimated cost. In all but one of the municipalities
 included comparing the Electric Light and Power Commission's cost, before
 giving effect to the reduction in power charges, exceeded the estimated
 cost in every instance ranging from 15 to 100%. The actual cost to all
 municipal corporations of the Electric Light and Power Commission, before making special
 charges, exceeding the estimated cost by from 15 to 100%. The excess in the
 cost of the Electric Light and Power Commission. In the Electric Light and Power
 the excess was not as great as in others, but was appreciable.

The situation of the municipal corporations in the Electric Light
 has been indicated in our report, and an analysis of estimates and
 actual costs shows that about 50% of the municipalities in the system are
 receiving their power at a rate equal to, or less than, estimated cost and

about 50% are paying more than estimated cost. The differences in this system are not nearly so great, however, as those encountered elsewhere and its situation in comparison with others may be considered a satisfactory one at the present time.

As before indicated, errors in estimates of the cost of power to a prospective customer may arise from a variety of causes, chief among these may be mentioned errors caused by incorrect estimates of capital cost of works, and incorrect assumptions with regard to the load that will be taken. We have definitely demonstrated that the Commission has frequently made serious errors in its estimates of capital cost, and this has resulted in incorrect estimates being submitted to municipalities covering their cost of power. The second cause for error, namely, that of incorrect assumption as to power loads, is also a most important matter. We find that the Commission has again and again greatly over-estimated the amount of power to be taken by a municipality, and as the power load regulates to a large extent the unit cost per horse-power, the municipalities in many cases have been totally misled regarding the price that they would have to pay.

The Commission has stated to us that one of the main reasons leading to the error made in assumed power loads, was on account of municipalities being over-optimistic as to the amount of power they could consume. This in no way relieves the Commission of responsibility in the matter, for the majority of municipalities throughout Ontario know little of such matters, and place entire reliance upon the guidance and judgment of the Commission

order not to pay any more than estimated cost. The difference is paid
 again and not nearly so great, however, as when unexpected expenses are
 the situation is complicated with other things and a satisfactory
 of the present time.

As before indicated, errors in estimates of the cost of power
 in a prospective customer may arise from a variety of causes, chief among
 them may be mentioned errors caused by incorrect estimates of capital cost
 of works, and incorrect assumptions with regard to the load that will be placed
 on the system. It is difficult to determine just how serious are these errors
 serious errors in the estimates of capital cost, and this has resulted in
 incorrect estimates being accepted by municipalities regarding their cost of
 power. The second cause for error, namely, that of incorrect estimates as
 to power loads, is also a most important matter. It is true that the Commission
 has again and again strongly recommended the amount of power to be placed up
 a municipality, and as the power load regulated by a large extent the cost
 and the power-cost, the municipalities in many cases have been fairly
 misled regarding the price that they would have to pay.

The Commission has stated in its report on the main reasons
 leading to the error made in estimating power loads, was its failure to make
 policies being over-optimistic as to the amount of power they would require.
 This is an old policy the Commission of responsibility in the past, the
 the majority of municipalities throughout Canada have little or no history
 and have entire reliance upon the estimates and judgment of the Commission

and its officials. We believe that it is the duty of the Commission to see that its estimates to the municipalities are based upon loads that may be definitely expected to obtain when the service is installed, and in actual operation. It is little or no comfort to a municipality to be told by the Commission, as many municipalities in Ontario have been told, that, if their load were three times as great as it actually is, the cost of power to them would not be greater than the estimated rate. It is the duty of the Commission to see that all municipalities are dealt with frankly and supplied with actual facts, and not with information based upon hypothetical conditions.

Section 25

CONSTRUCTION POLICY

COPY

After a thorough inspection and examination of the several parts of many of the works controlled and operated by the Commission, we came to the conclusion that in the design and construction of those erected by it or under its direction, the Commission had in view as its main objective, the installation of plant and equipment of such character and efficiency that operating difficulties would be reduced to a minimum and the durability and usefulness of the works for an extended period assured.

This was forcibly impressed upon us in comparing the development works at Ranney Falls with other plants in the Central Ontario district, which had been constructed by the company operating them prior to the purchase by the Province. The comments on this subject of our Consulting Engineer, from

and its officials. We believe that it is the duty of the Commission to see that the situation in the municipalities are based upon facts that may be definitely ascertained in order that the system be installed, and in order that it is likely to be accepted as a municipality to be held by the Commission, as many municipalities in Mexico have been told, that it may lead to some extent to be accepted as a municipality, the cost of power to them would not be greater than the situation now. It is the duty of the Commission to see that all municipalities are dealt with fairly and equitably.

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After a thorough investigation and consultation of the relevant departments, the Commission has decided to recommend that the Commission should be reconstituted and should be empowered to investigate and report on the activities of the Commission and to recommend to the Commission the necessary steps to be taken to ensure the effective functioning of the Commission.

[illegible]

which we quote, express his, as well as our, views:

"From a comparison of conditions at the various sites, and making allowance for the difference in head and in the constructional features, and for the dates of construction, it may be stated that the Ranney Falls plant could have been built at a somewhat smaller cost per horse-power than was actually the case. The Ranney Falls plant has features of design which undoubtedly are more expensive in capital cost than at many of the other plants. The reinforced concrete penstocks, the elaborate reinforced scroll cases for the turbines, and the reinforced concrete draft tubes, together with a number of the electrical features have all been designed and constructed having in mind very high grade construction and high efficiency in operating conditions. The policy of the engineers of the Hydro-Electric Power Commission apparently has been to develop this site for the maximum efficiency in operation and to place in the plant every feature making for absence of operating difficulties and tending to long useful life.

"The other plants on the system were all designed by a private company, and bear evidence of the fact that the designers had primarily in mind a return on the invested capital in the form of dividends, as well as giving a good service to the customers served.

"The above construction policy of the engineers of the Hydro-Electric Power Commission of Ontario seems also to have been applied in building the transformer stations and high tension transmission lines."

The Ranney Falls Development, being part of the Central Ontario System, was, of course, a Provincial undertaking, for the cost of which no municipal corporations had assumed any liability and it was to be expected that, as is usual with undertakings distinctly of a public character in which no class of the community is particularly concerned, the same regard was not paid to capital cost as might have been paid, were conditions different. The governing factor in this plant was the necessity of conserving to the fullest extent the water supply and much expenditure was made to attain this end.

The design and construction of other works of the Commission and notably the Queenston-Chippawa Power Development, display a nicety and perfection beyond criticism. The development works at Cameron Falls, Thunder Bay System, are of the highest order. The high standard set in the aforementioned cases was not maintained to the same degree in the cases of the development at High Falls, Eugenia Falls and Wasdell's Falls, but even those compare favourably as to design and construction with plants of private corporations or others. In the rehabilitation of the Sandwich, Windsor and Amherstburg Railway, and the Windsor and Tecumseh Electric Railway, and the Guelph Radial Railway, the workmanship and material were of the highest class and conducive to permanence and to facility of operation.

No reasonable objection can be made to the Commission providing works of a standard of efficiency and permanence not employed elsewhere, but there is a point at which extra cost for elaborate design and workmanship becomes extravagance and is unjustifiable.

The Commission has constructed practically all the more important development works with its own construction staff. We have, in former reports and particularly in that upon the Queenston-Chippawa Power Development, expressed our opinion that the Province and contracting municipal corporations would be better served were the Commission to devote its present organization's time and energies to duties other than those relating to construction work of magnitude.

In that part of our report on the Queenston-Chippawa Power Development dealing with construction procedure and management, we have not adversely criticized the Commission for deciding to conduct directly, construction operations. As we have pointed out, it would have been impossible to obtain a firm bid from any contracting organization for doing this work, and had the work been let under any form of contract other than the straight cost plus a percentage basis, the enormous increase in labour and material costs during 1919 and 1920 might have resulted in financial ruin to the contractor, with the result that the Commission would have had to finish the work with its own force. We are, however, firmly of the opinion that having decided to construct the work itself, the Commission was seriously at fault in not creating a separate construction department under the direction of a qualified manager of construction. The facts supporting our view in this connection will be found in our detailed report on the Queenston-Chippawa Power Development, and it would be impossible at this place to give even the briefest summary of the salient features.

The foregoing review leads naturally to the question as to what procedure should be followed by the Commission in the future in reference to the method of constructing its works. There is much to be said in favour of the view held by those in a position to know that public or semi-public work is subject to inherent handicaps and difficulties almost impossible to overcome when construction is done on a force account basis, instead of on a contract basis. Certainly this is so, when the work is not under the manage-

the latest summary of the nation's features.

It is development, and it would be impossible at this time to give over

communities will be found in our detailed report on the Mountain-States

qualified summary of conditions. The same suggestion was also in this

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division is concerned in the same line, the division was established at this

time after the first survey. We are, however, firmly of the opinion that having

interest, with the results that the Mountain-States have had in this line

create during 1915 and 1916 might have resulted in increased work in the same

most than a permanent basis, the Mountain-States is in the same position

and has the same line of work as the other States of the Mountain-States

to obtain a firm basis and continuing organization for the future.

attention is directed. As we have indicated, it would have been impossible

adequately expressed the Mountain-States' feeling in relation thereto, and

development dealing with conditions prevailing and increasing, we have not

in this part of our report on the Mountain-States.

The foregoing review leaves naturally to the question as to what procedure should be followed by the Committee in the future in reference to the subject of counteracting the work. There is much to be said in favor of the view held by those in a position to know that inside or outside work is subject to numerous hindrances and difficulties almost impossible to overcome when counteraction is done on a large account basis, instead of on a restricted basis. Certainly this is so, when the work is not under the immediate supervision of the Committee.

ment and control of men especially qualified in such matters. Even under normal conditions, circumstances may be such as to make it desirable and expedient that work be conducted on a force account basis, but in such an event we believe that our recommendations with respect to a separate construction organization would bring the best results.

Since the moneys necessary in the construction of large developments must be advanced by the Province, the interests of the Province must be protected to the greatest extent possible. Then there is much to be said in favour of having future works constructed on a contract basis. If this were done, the Government would know as nearly as possible when authorizing a work what the cost would be. The Commission would then assume the role of supervisor through the agency of its engineering staff.

PART VII - APPROPRIATIONSSection 26METHOD OF OBTAINING FUNDS

In order that the Commission might have funds to meet the cost of works and other outlays to be made by it in connection with the supply of electrical power or energy to municipal corporations and others, the original Power Commission Act of 1906 provided that the Lieutenant-Governor in Council might from time to time raise by way of loan in the manner provided by the Provincial Loans Act such sums as the Lieutenant-Governor in Council might deem requisite for the purposes of the Act, and that such sums might be paid over to the Commission and should be accounted for and audited in the manner provided with respect to the management of the public revenue and public accounts.

This source of supply of funds is still available under the Act as it is at present, and prior to 1916 was the sole source from which moneys could be obtained for purposes of the Commission. In 1917, and subsequent years amendments to the Act and the enactment of other Statutes authorized other means of financing the undertakings of the Commission.

The procedure laid down by the Act of 1906, and still applicable, has never been strictly followed. It has not been the practice for the Lieutenant-Governor in Council from time to time to raise by way of loan specific sums for the purposes of the Act and to pay such sums over to the Commission. Annual appropriations were voted by the Legislature for purposes

ARTICLE 1 - GENERAL

SECTION 1

ARTICLE 1 - GENERAL

In order that the Commission might have means to meet the cost of work and other outlays to be made by it in connection with the supply of electrical power or energy to municipal corporations and others, the National Government Act of 1901 provided that the Government-Government in Hawaii might from time to time raise by way of loan in the manner provided by the National Government Act such sums as the Government-Government in Hawaii might deem requisite for the purpose of the Act, and that such sums might be paid over to the Commission and should be deposited by and applied in the manner provided with respect to the management of the public revenue and public accounts.

This source of supply of funds is still available under the Act as it is at present, and prior to 1918 was the sole source from which moneys could be obtained for purposes of the Commission. In 1917, and subsequent years moneys to the end of the management of public accounts and other moneys of financing the maintenance of the Commission. The Commission said that by the Act of 1918, and still available, has never been strictly followed. It has not been the practice for the Government-Government in Hawaii from time to time to raise by way of loan specific sums for the purpose of the Act and to pay such sums over to the Commission. Annual appropriations were voted by the Legislature for purposes

of the Act and these have been drawn upon by the Commission as required, and paid out of funds in the hands of the Province obtained from the proceeds of Provincial loans for general purposes. Prior to 1917, the Commission furnished to the Government a statement of the amount required for its purposes for the ensuing year without furnishing particulars of the amounts required for its different undertakings, and the sum asked for was voted by the Legislature. In 1917 and subsequent years when appropriations were voted, definite amounts were allocated to the several purposes for which they were asked by the Commission. The Ontario Niagara Development Act, 1916, shows the first departure from the original method of providing funds for any undertaking under the control of the Commission, and definitely provided that the cost of the works constructed or acquired under it should be met by appropriations by the Legislature.

COPY

In 1917, 1918 and 1920, substantial changes were made in the provisions of The Power Commission Act relating to financial transactions of the Commission. Under the amending Acts of these years and under The Ontario Niagara Development Act, 1917, the Commission obtained greatly extended powers, and there was cast upon the Province responsibility and liability, limited, not by the will and vote of the Legislature, but at the discretion of the Lieutenant-Governor in Council. By The Power Commission Act, 1917, and by The Ontario Niagara Development Act, 1917, the Commission was authorized, upon the authority of the Lieutenant-Governor in Council, to issue bonds or other securities for any purpose within its jurisdiction, and to enter into any contract or agreement in connection with the acquisition of

of the act and those have been given by the Commission as required, and
 gain out of funds in the hands of the various officials from the proceeds of
 provincial taxes for general purposes. Under the 1917, the Commission has
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 In 1917 and subsequent years when appropriations were made, certain amounts
 were allocated to the several purposes for which they were made by the Com-
 mission. The various amounts are, 1917, above the first figures
 from the original method of providing funds for the Commission under the
 control of the Commission, and similarly provided from the rest of the funds
 contributed on specified terms is similar to that by appropriations of the leg-
 islate.

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In 1917, 1918 and 1919, substantial changes were made in the
 provisions of the laws governing the relation to financial institutions
 of the Commission. Under the existing laws of those years and under the
 various amounts provided for, 1917, the Commission obtained directly the
 needed funds, and there was paid upon the various responsibility and
 liability, limited, and by the act of the Legislature, but at the
 discretion of the Commission-Governor in Council. By the laws of 1917, the Commission
 act, 1917, and by the various amounts provided for, 1917, the Commission
 was authorized, upon the authority of the Commission-Governor in Council, to
 raise funds or other amounts for any purpose within the Legislature, and
 to enter into any contract or agreement in connection with the acquisition of

any shares of any company and assume the obligations of such company. The Lieutenant-Governor in Council was authorized to guarantee the bonds and performance of the covenants of the Commission.

By The Power Commission Act, 1918, the Commission was authorized, upon the authority of the Lieutenant-Governor in Council, to borrow money for its purposes and issue its bonds, debentures and other securities therefor and the Lieutenant-Governor in Council was authorized to guarantee the repayment of loans negotiated by the Commission from banks, or any other indebtedness incurred by the Commission to any extent.

The Power Commission Act of 1920 authorizes the Lieutenant-Governor in Council to issue special warrants for payment of moneys to the Commission where an appropriation made by the Legislature for any work of the Commission has become exhausted in any fiscal year, and the Chairman reports that it is necessary and expedient that such work shall be proceeded with, and that an additional amount is required for that purpose.

As has been previously stated by us this amendment of 1920 to The Power Commission Act was not expressly made applicable to works being constructed under The Ontario Niagara Development Act, but it was so applied and advances made for the Queenston-Chippawa Power Development which were not covered by appropriations voted by the Legislature.

In effect, under present conditions, appropriations voted by the Legislature for purposes of the Commission are no index of the amount that will be expended by the Commission or advanced by the Province, nor of the liabilities

The Board of Directors of the Corporation is authorized to execute any and all contracts, leases, mortgages, and other instruments, and to do all such acts and things as may be necessary or proper to carry out the purposes and objects of the Corporation.

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that will be assumed by the Commission and guaranteed by the Province in the current or ensuing fiscal year. The Legislature and the people of the Province must rely on the assurances of the Commission that some day in some way Provincial advances will be repaid and Provincial liabilities released. Statutory amendments regarding the methods of obtaining funds for the purposes of the Commission have resulted in a very wide departure from the principle of Legislative control of, and responsibility for, all expenditures of Provincial moneys.

Section 27

EXPENDITURES IN EXCESS OF APPROPRIATIONS AND DIVERSION OF APPROPRIATIONS

COPY

Since 1917, the appropriations of the Legislature have not been voted in a lump sum, but have been earmarked for specific works pursuant to estimates submitted by the Commission. It appears from the report of our Accountants that the Commission has never considered it a matter of special importance that the annual expenditures on a specific work should not exceed the appropriations or the advances in respect of the appropriations for the purposes of that work. For example, an appropriation has been voted by the Legislature for the Queenston-Chippawa Power Development in each year since 1917, yet prior to 1922 the expenditures made by the Commission for Queenston-Chippawa regularly exceeded the advances. Full details of the manner in which advances were exceeded may be obtained by referring to our report on the Queenston-Chippawa Power Development, but we would here point out certain of the outstanding facts in connection therewith.

that will be required by the Commission and Government by the various in
the various in various fiscal years. The Commission will be able to
provide most of the estimates of the Commission that will be in the
way of financial statement will be required and financial facilities required.
Statutory amendments regarding the subject of operating costs for the various
of the Commission have been in a very wide measure from the principle of
legislative control of, and responsibility for, all expenditures of the
Commission.

Section II

MINISTERIAL RESPONSIBILITY
AND FINANCIAL CONTROL

Since 1917, the Commission of the Legislature has not been
vested in a long and not have been concerned for specific work required in
estimates submitted by the Commission. It appears that the report of the
Commission that the Commission has never considered it a matter of special
importance that the Commission should be a specific work should not suggest
the responsibility of the Commission in respect of the expenditure of the
Commission of the Commission. For example, an expenditure has been made by the
Legislature for the Commission's work in the various years.
1917, but before 1917 the responsibility was by the Commission in the
Legislature regarding the estimates. Full details of the manner in which
estimates were submitted may be obtained by reference to the report on the
Legislature-Commission (see Appendix), but we would say that the details of
the estimates have in connection therewith.

During the five-year period ending October 31st, 1921, the Province had advanced in respect of appropriations, \$53,040,674, and the Commission expended over \$58,000,000 upon the Queenston-Chippawa Power Development. The balance of about \$5,000,000 was, in the words of Mr. Clarkson:

"applied out of moneys advanced by the Province to the Commission for the purpose of other systems to the extent of \$4,806,215 and out of renewal and reserve funds belonging to the Niagara System to the extent of \$171,476.00."

As at October 31st, 1922, the advances totalled \$61,278,545.00 and the expenditures totalled \$65,642,615.00.

Although expenditures have exceeded advances in respect of appropriations for many other works of the Commission, the Queenston-Chippawa Power Development has been used as an illustration because it is being constructed under the provision of the Development Acts, or in other words The Ontario Niagara Development Acts of 1916 and 1917, which specifically provide that "the cost of the construction... of the works... shall be defrayed out of such money as may, from time to time, be appropriated by the Legislature for that purpose".

In our report upon The Ontario Power Company, we have described the manner in which the Commission financed the construction of the Third Pipe Line. No appropriation in respect of this work was voted, but under authority of an Order-in-Council, a loan of \$1,250,000 was obtained from the Bank of Montreal. The estimated cost was \$1,806,000, the actual cost exceeded \$3,500,000. The Commission did not apply to the Legislature for any appropria-

During the five-year period ending October 31st, 1931, the

Levinson has estimated in respect of expenditures, \$25,715,000, and the

Levinson estimated over \$25,715,000, and the Levinson estimated over \$25,715,000.

The balance of about \$2,515,000, in the words of Mr. Levinson:

"Applied out of money advanced by the Levinson to the Levinson
Levinson for the purpose of other systems to the extent of
\$2,515,000, and out of revenue and revenue funds belonging
to the Levinson system to the extent of \$2,515,000."

As of October 31st, 1931, the balance detailed \$2,515,000.

and the expenditures totaled \$25,715,000.

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of an Order-in-Council, a loan of \$1,250,000 was obtained from the Levinson

Levinson. The estimated cost was \$1,250,000, the actual cost amounted

\$2,515,000. The Levinson has been under the Levinson for the Levinson

tion or to the Government for a guarantee of an additional loan. In our report on The Ontario Power Company, we say:

"... there was lying in the hands of the Commission \$1,700,000 which had been voted by the Legislature for construction of works in the Central Ontario System and which was held by the Commission as the agent of the Government. Without any authority from the Government or the Legislature the Commission took this sum and used it to complete the construction of the third pipe line. This was later paid back out of appropriations for the Niagara System."

This matter is referred to in several of Mr. Clarkson's reports and we draw attention to his comment in our report entitled "Examination of Auditor's Reports for period 1916-1921 inclusive". In that report we state:

"It is clear that the action taken by the Commission in diverting funds voted for Central Ontario, for works in systems operated by it under The Power Commission Act, was wholly unwarranted, and the Auditor was fully justified in bringing the matter year after year to the attention of the Government of the day. The action taken by the Commission in diverting funds was never approved by the Legislature."

Again in our report on the Central Ontario System, we point out that the money voted by the Legislature for this system, was diverted by the Commission and expended, not on property directly purchased by the Province, but on plants throughout Ontario that were constructed or acquired and were being operated by the Commission under the provisions of The Power Commission Act.

In his 1919 report, Mr. Clarkson shows that for the fiscal year ending October 31st, 1919, the Commission made requisition upon, and obtained

from, the Province the whole of the moneys included in the estimate voted for that period, and that after expenditures of portions thereof for the specific purposes for which they were voted, there remained in its hands a total of over \$3,000,000 which it expended on other systems in excess of appropriations provided therefor.

In the same report, Mr. Clarkson makes a statement which shows that the Commission was lax in not exercising definite control over expenditures, for he says:

"It is apparent that the members of the Commission - of themselves - were not fully seized of the extents by which appropriations were being exceeded or moneys being expended for purposes other than those for which appropriations had been asked. With the matter drawn to their attention, steps have been taken to keep expenditures within appropriations."

Perhaps the most glaring instance of misappropriation of funds is found in the action taken by the Commission when, in the year 1920, the sum of over \$1,000,000, which had been obtained for expenditures on systems and other duly authorized purposes, was expended by the Commission in connection with Hydro-Electric Radial Railways, for which no appropriations whatsoever had ever been made.

During the period from 1918 to October 31st, 1922, the Province advanced the Commission \$6,453,695.27 for the Thunder Bay System, while during the same period the Commission expended on this system \$6,533,331.96 or \$1,920,363.31 less than the amount advanced by the Province. The difference between these two sums was used by the Commission without authority, and apparently without the knowledge of the Government, on other undertakings in

excess of the amounts advanced therefor by the Province. This diversion was only one of many, and shows how little control the Government had over the expenditures of the Commission and how little regard the Commission paid to the special trusts upon which it received the moneys.

Employment of Reserves on Capital Account

The Commission has not only misapplied specific advances from the Province, but it has employed its renewal and other reserve funds on capital account, often upon works of systems other than those in respect of which they were established. For example, the Essex System was purchased by the Commission with the approval of the Government in 1912. It is not a system within the meaning of The Power Commission Act. To quote from the 1921 report of Mr. Clarkson, at page 63:

"To October 31, 1920, the Commission had advanced \$149,516.68 to the Essex System out of renewal and other reserve funds held by it to the credit of other power systems; in the fiscal year ending October 31, 1921, such advances were reduced by \$22,375.34 leaving a balance still owing as of date October 31, 1921, of \$127,141.34."

The renewal reserves of the Commission have also been employed from time to time in the construction of the Queenston-Chippawa Power Development.

We quote the concluding paragraph of our report on the Severn System:

"The expenditures made by the Commission in purchase of the properties of the Simcoe Railway & Power Company and upon extension of the Big Chute plant and for transmission lines do not appear to have been provided for by appropriations specifically made therefor or in general appropriations applicable thereto, and were presumably made from the general

fund' of the Commission and moneys therein derived from sources and for purposes unconnected with the Severn System. The diversion of funds in the hands of the Commission for one purpose, from that to another is, in our opinion, not only unwise, but also improper and unwarranted."

Diversion of Funds for Unauthorized Purposes

Not only has the Commission frequently expended sums on specific works in excess of the advances in respect of appropriations therefor, either by way of employment of funds appropriated for other purposes or the reserve or other funds of the Commission not properly applied on capital account, but it has frequently incurred heavy expenditures in respect of works for which there was not and never had been any appropriation or advance by the Province. We have submitted a special report entitled "Hydro-Electric Radial Railways" which serves as an excellent illustration of the diversion of funds to unauthorized expenditures.

The total diversion for Hydro-Electric Radial Railway purposes to the end of the fiscal year, 1922, was approximately \$1,109,000. Although this represented the greatest diversion, numerous other examples might be cited: \$11,000 was disbursed to finance what is properly known as the Radial Campaign prior to the annual municipal elections of January 1923; a very considerable sum was used in connection with farming operations on land purchased for the purpose of the Queenston-Chippawa Power Development; the use of Power Commission funds temporarily in the construction of the London and Port Stanley Railway was absolutely unauthorized; and all the preliminary expenses incurred in the purchase of the Sandwich, Windsor and Amherstburg Railway were met out of the General Fund of the Commission without a shadow of authority.

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THE NATIONAL ARCHIVES

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On the 10th of the month of June, 1966, the following was received from the Bureau of the Federal Bureau of Investigation, Washington, D.C.:

1. The first of these is the fact that the Commission has not yet received any information from the Government of the United States regarding the activities of the Committee for the Liberation of the Americas (CLA) in the United States.

...and ...

to visit

Special attention is directed to Exhibit IIIc to IIIf, inclusive, of Price, Waterhouse & Co.'s report entitled "General Report on Investigation of Financial Accounts", dated January 26th, 1923. These exhibits show appropriations, cash advances, expenditures, the amounts over or under-expended, and funds borrowed from outside sources for each of the years from 1918 to 1921, inclusive. In these Exhibits, the general practice of the Commission to employ funds appropriated by the Legislature for specific purposes on works other than in respect of which they were appropriated is clearly shown.

General

The practice of the Commission in exceeding the Legislative appropriations, diverting funds specifically voted for one purpose and employing them for another purpose, and using funds specially intended and voted for one purpose on wholly unauthorized work, shows a total disregard of its duties and obligations. It has been claimed many times that war conditions justified this practice. They did not justify it, but, as we have already pointed out in another report, diversions, in many instances, were made to a greater extent after the war than during its progress.

The Commission and especially the Chairman of the Commission has habitually shown an impatience of Statutory restraints and a disregard of Statutory obligations. If the Government did not give the Commission what it wanted, when it wanted it, the Commission did not hesitate to use for such purposes as it saw fit, any moneys on which it could lay its hands. It has

thus disregarded the conditions imposed by the Legislature when it voted the money. It is not easy to understand how it was that the Commission was permitted for such a long period to handle the funds that came into its hands with such incredible looseness.

In effect, the Legislature has encouraged the Commission in such practices for it has voted year after year funds sufficient to cover over-expenditures made by the Commission, without asking it to account for its unwarranted actions.

COPY

- End of Volume I -

and the Commission is not to be in a position to make a final decision on the matter. It is not easy to understand how it was that the Commission was not able to make a final decision on the matter. It is not easy to understand how it was that the Commission was not able to make a final decision on the matter.

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